

FASZINATION KALK ...

**OTTERBEIN**



... SEIT JAHRTAUSENDEN BEWÄHRT®

Who prefers the *Nature*  
can rely on us.

Product program 2016  
effective from October 4<sup>th</sup> 2016



Product catalog "Historic Building  
Preservation and Restoration  
and Ecological Construction"



Fördermitglied im  
Verband  
der Restauratoren

# OTTERBEIN's lime product portfolio ... brings stones to life.

*since 1889  
natural  
sustainable manifold*



Further information on our products  
for historic building preservation and  
ecological construction:



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based on Natural Hydraulic Lime & Air Hardening Lime

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The presented recommendations are based on the know-how, that Zement- und Kalkwerke OTTERBEIN has established over many years. Applying our products always requires following and complying to the currently valid version of the respective technical datasheets.

Legend:  suitable for interior application  suitable for exterior application

# Binders

based on Natural Hydraulic Lime & Air Hardening Lime

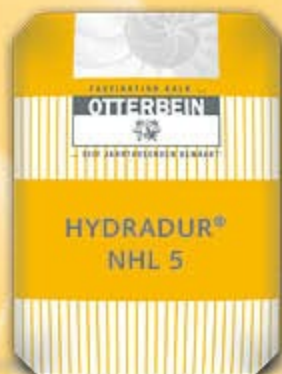
- HYDRADUR® – Natural Hydraulic Lime NHL 5
- CALCIDUR® – Natural Hydraulic Lime NHL 3.5
- CALCIDUR® – Natural Hydraulic Lime NHL 2
- Trass Lime – FL B 2 (NHL 80, P 20)
- White fine lime I – White lime CL 80-Q (quicklime)
- White lime hydrate I – White lime CL 80-S
- White lime hydrate II – White lime CL 90-S



# Binders

based on Natural Hydraulic Lime & Air Hardening Lime

## HYDRADUR® – Natural Hydraulic Lime NHL 5



**Compressive strength (acc. to EN 459-2):**  
 28 days: approx. 6.5 N/mm<sup>2</sup>  
 6 months: approx. 11.0 N/mm<sup>2</sup>  
 12 months: approx. 14.0 N/mm<sup>2</sup>

**Bulk density:** approx. 0.55 kg/dm<sup>3</sup>

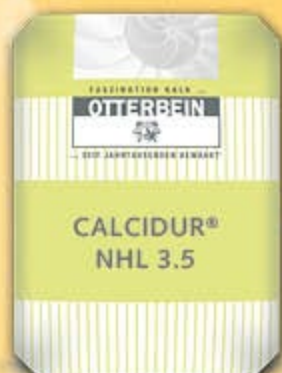
**Available lime in Ca(OH)<sub>2</sub>:** approx. 43 %

**SO<sub>3</sub>:** approx. 0.5 %



Art.-No.	Delivery	Application
A2023009	25 kg-bag	Binder for plasters, renders and mortars

## CALCIDUR® – Natural Hydraulic Lime NHL 3.5



**Compressive strength (acc. to EN 459-2):**  
 28 days: approx. 4.8 N/mm<sup>2</sup>  
 6 months: approx. 8.5 N/mm<sup>2</sup>  
 12 months: approx. 10.5 N/mm<sup>2</sup>

**Bulk density:** approx. 0.55 kg/dm<sup>3</sup>

**Available lime in Ca(OH)<sub>2</sub>:** approx. 45 %

**SO<sub>3</sub>:** approx. 0.4 %



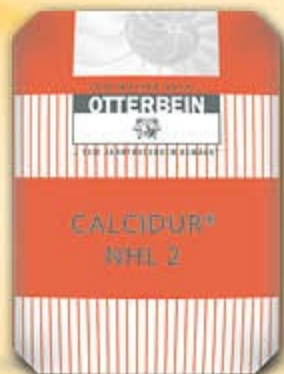
Art.-No.	Delivery	Application
A2022109	25 kg-bag	Binder for plasters, renders and mortars



# Binders

based on Natural Hydraulic Lime & Air Hardening Lime

## CALCIDUR® – Natural Hydraulic Lime NHL 2



**Compressive strength (acc. to EN 459-2):**  
 28 days: approx. 4.0 N/mm<sup>2</sup>  
 6 months: approx. 6.5 N/mm<sup>2</sup>  
 12 months: approx. 8.5 N/mm<sup>2</sup>

**Bulk density:** approx. 0.5 kg/dm<sup>3</sup>

**Available lime in Ca(OH)<sub>2</sub>:** approx. 46 %

**SO<sub>3</sub>:** approx. 0.4 %



Art.-No.	Delivery	Application
A2021009	25 kg-bag	Binder for plasters, renders and mortars

## Trass Lime – FL B 2 (NHL 80, P 20)



**Compressive strength (acc. to EN 459-2):**  
 28 days: approx. 4.5 N/mm<sup>2</sup>  
 6 months: approx. 7.5 N/mm<sup>2</sup>  
 12 months: approx. 9.5 N/mm<sup>2</sup>

**Bulk density:** approx. 0.6 kg/dm<sup>3</sup>

**Available lime in Ca(OH)<sub>2</sub>:** approx. 39 %

**SO<sub>3</sub>:** approx. 0.4 %

**Trass content:** approx. 20 %



Art.-No.	Delivery	Application
A2026009	25 kg-bag	Binder for plasters, renders and mortars



## White fine lime I – White lime CL 80-Q (quicklime)



<b>Bulk density:</b>	approx. 0.95 kg/dm <sup>3</sup>
<b>Available lime in Ca(OH)<sub>2</sub>:</b>	approx. 65 %
<b>SO<sub>3</sub>:</b>	approx. 0.4 %



Art.-No.	Delivery	Application
A2031109	25 kg-bag	Binder for plasters, renders and mortars

## White lime hydrate I – White lime CL 80-S



<b>Bulk density:</b>	approx. 0.48 kg/dm <sup>3</sup>
<b>Available lime in Ca(OH)<sub>2</sub>:</b>	approx. 68 %
<b>SO<sub>3</sub>:</b>	approx. 0.4 %



Art.-No.	Delivery	Application
A2010009	25 kg-bag	Binder for plasters, renders and mortars

## White lime hydrate II – White lime CL 90-S



<b>Bulk density:</b>	approx. 0.4 kg/dm <sup>3</sup>
<b>Available lime in Ca(OH)<sub>2</sub>:</b>	approx. 91 %
<b>SO<sub>3</sub>:</b>	approx. 0.1 %



Art.-No.	Delivery	Application
A6012009	25 kg-bag	Binder for plasters, renders and mortars

## Plasters & renders

based on Natural Hydraulic Lime

- CALCEA® Lime base plaster
- CALCEA® Fine lime plaster
- CALCEA® Lime spatterdashing mortar
- CALCEA® Lime thermal plaster (interior)
- CALCEA® Lime thermal render (exterior)
- CALCEA® Lime skimming plaster
- CAREMA® Lime-clay base plaster
- CAREMA® Lime-clay fine plaster
- HISTOCAL® Traditional pure lime plaster CS I (interior, coarse)
- HISTOCAL® Traditional pure lime plaster CS I (interior, fine)
- HISTOCAL® Traditional pure lime render CS II (exterior, coarse)
- HISTOCAL® Traditional pure lime render CS II (exterior, fine)
- HISTOCAL® Lime-trass render
- HISTOCAL® Pore render (coarse)
- HISTOCAL® Pore render (fine)





# Plasters & renders

based on Natural Hydraulic Lime

## CALCEA® Lime base plaster



<b>Mortar group:</b>	CS I acc. to EN 998-1, Plc acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.2 mm
<b>Compressive strength 28 days:</b>	approx. 1.1 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	approx. 1.400 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022109	25 kg-bag	for interior and exterior masonry of all kinds, for ecological construction as well as historic building preservation and restoration, suitable as priming coat for CALCEA® Fine lime plaster, CAREMA® Lime-day fine plaster, CALCEA® Lime skimming plaster or CALCEA® Lime Fillers as well as all mineral finish plasters	With a plaster application of 15 mm: • approx. 1.1 m <sup>2</sup> each 25 kg-bag • approx. 45 m <sup>2</sup> each tonne

## CALCEA® Fine lime plaster



<b>Mortar group:</b>	CS I acc. to EN 998-1, Plc acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-0.6 mm
<b>Compressive strength 28 days:</b>	approx. 1.0 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	approx. 1.400 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022209	25 kg-bag	finishing plaster for interior walls and facades in ecological construction as well as historic building preservation and restoration, surface for top coatings with CALCEA® Lime paintings and fillers and as a surface for wallpaper	With a plaster application of 3 mm: • approx. 6.75 m <sup>2</sup> each 25 kg-bag • approx 270 m <sup>2</sup> each tonne



# Plasters & renders

based on Natural Hydraulic Lime

## CALCEA® Lime spatterdashing mortar



<b>Mortar group:</b>	CS II acc. to EN 998-1, P11a acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-4.5 mm
<b>Compressive strength 28 days:</b>	approx. 2.4 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	approx. 1.300 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3054409	25 kg-bag	for difficult surfaces in ecological construction as well as historic building preservation and restoration (e.g. concrete surfaces, soft wood fibre boards or non-absorbent stones), as rough cast / preparatory mortar for lime plasters on non or weakly absorbent surfaces	<b>With a plaster application of 10 mm:</b> <ul style="list-style-type: none"> <li>• approx. 1.8 m<sup>2</sup> each 25 kg-bag (approx. 72 m<sup>2</sup> each tonne)</li> <li>• approx. 6.25 m<sup>2</sup> each 25 kg-bag as reticular preparatory mortar (approx. 250 m<sup>2</sup> each tonne)</li> </ul>

## CALCEA® Lime thermal plaster (interior)



<b>Mortar group:</b>	CS II acc. to EN 998-1
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-2.0 mm
<b>Dry bulk density:</b>	approx. 0.5 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. ≥ 0.4 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. 0.08 W/(m K)
<b>E-Module:</b>	approx. 580 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	approx. 7
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4054002	30 l-bag	mineral insulation for interior walls in ecological construction and historic building preservation and restoration, based on Natural Hydraulic Lime acc. to EN 459-1, slaked lime acc. to EN 459-1 and high-temperature insulating mineral light-weight additives	<b>With a plaster application of 40 mm:</b> <ul style="list-style-type: none"> <li>• approx. 0.8 m<sup>2</sup> each 30 l-bag</li> <li>• approx. 32 l wet mortar each 30 l-bag</li> </ul>

## CALCEA® Lime thermal render (exterior)



<b>Mortar group:</b>	CS II acc. to EN 998-1
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-2.0 mm
<b>Dry bulk density:</b>	approx. 0.5 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. $\geq 0.4$ N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. 0.08 W/(m K)
<b>E-Module:</b>	approx. 580 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor <math>\mu</math>:</b>	approx. 7
<b>Water absorption:</b>	W1



Art.-No.	Delivery	Application	Consumption
A4054102	30 l-bag	mineral insulation for facades in ecological construction and historic building preservation and restoration, based on Natural Hydraulic Lime acc. to EN 459-1, slaked lime acc. to EN 459-1 and high-temperature insulating mineral light-weight additives	With a render application of 40 mm: <ul style="list-style-type: none"> <li>• approx. 0.8 m<sup>2</sup> each 30 l-bag</li> <li>• approx. 32 l wet mortar each 30 l-bag</li> </ul>

## CALCEA® Lime skimming plaster



<b>Mortar group:</b>	CS I acc. to EN 998-1, Pla acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-0.5 mm
<b>Dry bulk density:</b>	1.0 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 1.0 N/mm <sup>2</sup>
<b>E-Module:</b>	n.a.
<b>Thermal conductivity:</b>	approx. $\leq 0.89$ W/(m K)
<b>Water vapor diffusion resistance factor <math>\mu</math>:</b>	approx. 10
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A6052017	25 kg-bag	as finish plaster on all interior lime- or cement-bound surfaces, as final finish before subsequent top coating or as a surface ready for wallpapering and as smoothing finish for applying spatula and sweeping techniques	With a plaster application of 1-2 mm: <ul style="list-style-type: none"> <li>• approx. 13 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 520 m<sup>2</sup> each tonne</li> </ul>

## CAREMA® Lime-clay base plaster



<b>Mortar group:</b>	CS I acc. to EN 998-1, PI acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.6 mm
<b>Dry bulk density:</b>	1.50 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 0.6 N/mm <sup>2</sup>
<b>E-Module:</b>	1.200 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	0.80 W/(m K)
<b>Water vapor diffusion resistance factor <math>\mu</math>:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022309	25 kg-bag	for interior masonry of all kinds, especially in ecological construction as well as historic building preservation and restoration, suitable as priming coat for CAREMA® Lime-clay fine plaster, CALCEA® Fine lime plaster, CALCEA® Lime skimming plaster or CALCEA® Lime Fillers as well as all mineral finish plasters	With a plaster application of 15 mm: <ul style="list-style-type: none"> <li>• approx. 1.1 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 45 m<sup>2</sup> each tonne</li> </ul>

## CAREMA® Lime-clay fine plaster



<b>Mortar group:</b>	CS I acc. to EN 998-1, PI acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-0.6 mm
<b>Dry bulk density:</b>	1.50 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 0.6 N/mm <sup>2</sup>
<b>E-Module:</b>	approx. 1.200 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	0.80 W/(m K)
<b>Water vapor diffusion resistance factor <math>\mu</math>:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022409	25 kg-bag	finishing plaster for interior walls and facades in ecological construction as well as historic building preservation and restoration, surface for top coatings with CALCEA® Lime paintings and fillers and as a surface for wallpaper	With a plaster application of 3 mm: <ul style="list-style-type: none"> <li>• approx. 6.75 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 270 m<sup>2</sup> each tonne</li> </ul>

## HISTOCAL® Traditional pure lime plaster CS I (interior, coarse)



<b>Mortar group:</b>	CS I acc. to EN 998-1, Plc acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-4.5 mm
<b>Compressive strength 28 days:</b>	approx. 0.8 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	approx. 1.300 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022509	25 kg-bag	priming coat for interior surfaces in historic building preservation and ecological construction, application on facades possible in certain cases	With a plaster application of 15 mm: <ul style="list-style-type: none"> <li>• approx. 1.1 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 46 m<sup>2</sup> each tonne</li> </ul>

## HISTOCAL® Traditional pure lime plaster CS I (interior, fine)



<b>Mortar group:</b>	CS I acc. to EN 998-1, PII acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.2 mm
<b>Compressive strength 28 days:</b>	approx. 0.8 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	approx. 1.300 N/mm <sup>2</sup>
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4022809	25 kg-bag	finishing coat for interior surfaces in historic building preservation and ecological construction, application on facades possible in certain cases	With a plaster application of 10 mm: <ul style="list-style-type: none"> <li>• approx. 1.8 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 75 m<sup>2</sup> each tonne</li> </ul>

# Plasters & renders

based on Natural Hydraulic Lime

## HISTOCAL® Traditional pure lime render CS II (exterior, coarse)



<b>Mortar group:</b>	CS II acc. to EN 998-1, Pli acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-4.5 mm
<b>Compressive strength 28 days:</b>	approx. 1.7 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	n.a.
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4052009	25 kg-bag	priming coat for exterior and interior surfaces in historic building preservation and ecological construction	With a render application of 15 mm: <ul style="list-style-type: none"> <li>• approx. 1.1 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 46 m<sup>2</sup> each tonne</li> </ul>

## HISTOCAL® Traditional pure lime render CS II (exterior, fine)



<b>Mortar group:</b>	CS II acc. to EN 998-1, Pli acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.2 mm
<b>Compressive strength 28 days:</b>	approx. 1.8 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	approx. ≤ 0.89 W/(m K)
<b>E-Module:</b>	n.a.
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A4053010	25 kg-bag	finishing coat for exterior and interior surfaces in historic building preservation and ecological construction	With a render application of 10 mm: <ul style="list-style-type: none"> <li>• approx. 1.8 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 75 m<sup>2</sup> each tonne</li> </ul>



# Plasters & renders

based on Natural Hydraulic Lime

## HISTOCAL® Pore render (coarse)



<b>Mortar group:</b>	CS II acc. to EN 998-1, PII acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-3.5 mm
<b>Dry bulk density:</b>	1.20 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 2.5 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	≤ 0.43 W/(m K)
<b>Porosity:</b>	approx. 35 Vol.-%
<b>Water absorption:</b>	W0
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Capillary water absorption W:</b>	2.5 kg/(m <sup>2</sup> min <sup>0.5</sup> )



Art.-No.	Delivery	Application	Consumption
A4030010	25 kg-bag	priming coat for moist and salt-loaded interior or exterior masonry, for renovation of historic masonry, surfaces of historic monuments as well as ecological construction, based on Natural Hydraulic Lime acc. to EN 459-1, sulphate-resistant cement, mineral natural light-weight additives and grain-classified crushed lime sands	With a render application of 15 mm: <ul style="list-style-type: none"> <li>• approx. 1.7 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 70 m<sup>2</sup> each tonne</li> </ul>

## HISTOCAL® Pore render (fine)



<b>Mortar group:</b>	CS II acc. to EN 998-1, PII acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.5 mm
<b>Dry bulk density:</b>	1.10 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 2.5 N/mm <sup>2</sup>
<b>Thermal conductivity:</b>	≤ 0.43 W/(m K)
<b>Porosity:</b>	approx. 35 Vol.-%
<b>Water absorption:</b>	W0
<b>Water vapor diffusion resistance factor μ:</b>	< 8
<b>Capillary water absorption W:</b>	2.5 kg/(m <sup>2</sup> min <sup>0.5</sup> )

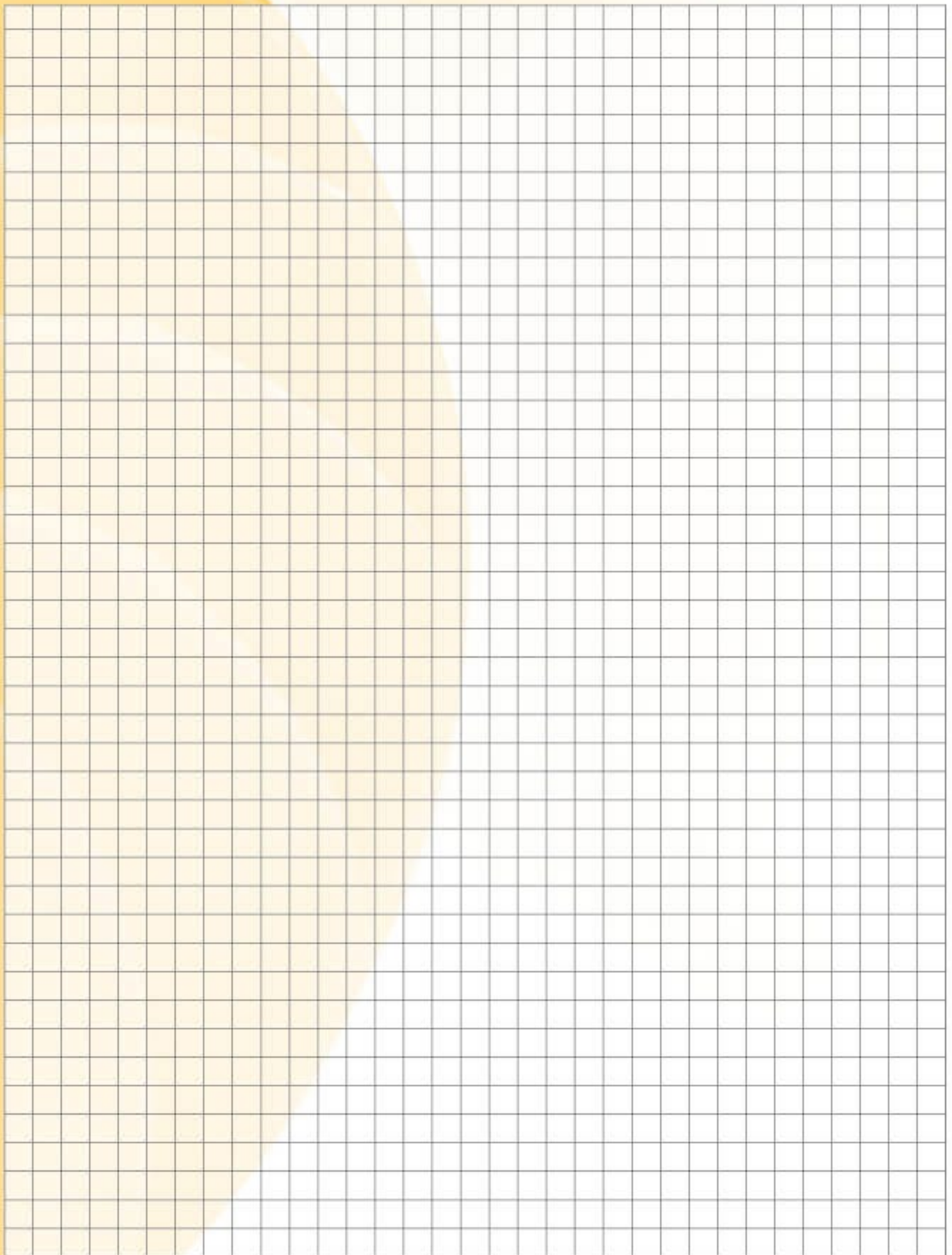


Art.-No.	Delivery	Application	Consumption
A4030110	25 kg-bag	finishing coat for moist and salt-loaded interior or exterior masonry, for renovation of historic masonry, surfaces of historic monuments as well as ecological construction, based on Natural Hydraulic Lime acc. to EN 459-1, sulphate-resistant cement, mineral natural light-weight additives and grain-classified crushed lime sands	With a render application of 15 mm: <ul style="list-style-type: none"> <li>• approx. 1.9 m<sup>2</sup> each 25 kg-bag</li> <li>• approx. 75 m<sup>2</sup> each tonne</li> </ul>





# Your notes





## Masonry & grouting mortars

based on Natural Hydraulic Lime

- HISTOCAL® Traditional masonry and grouting mortar MG II (coarse)
- HISTOCAL® Traditional masonry and grouting mortar MG II (fine)
- HISTOCAL® Traditional masonry and grouting mortar MG IIa (coarse)
- HISTOCAL® Traditional masonry and grouting mortar MG IIa (fine)

# Masonry & grouting mortars

based on Natural Hydraulic Lime

## HISTOCAL® Traditional masonry & grouting mortar MG II (coarse)



<b>Mortar group:</b>	M 2.5 acc. to EN 998-2, NM II acc. to DIN V 18580
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-4.5 mm
<b>Dry bulk density:</b>	approx. 1.65 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 3.0 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. 1.0 N/mm <sup>2</sup>
<b>E-Module:</b>	approx. 3.500 N/mm <sup>2</sup>
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3053209	25 kg-bag	masoning and grouting of historic masonry (e.g. natural stones, bricks)	<ul style="list-style-type: none"> <li>• approx. 15 l wet mortar each 25 kg-bag</li> <li>• approx. 600 l wet mortar each tonne</li> </ul>

## HISTOCAL® Traditional masonry & grouting mortar MG II (fine)



<b>Mortar group:</b>	M 2.5 acc. to EN 998-2, NM II acc. to DIN V 18580
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.2 mm
<b>Dry bulk density:</b>	approx. 1.65 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 3.0 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. 1.0 N/mm <sup>2</sup>
<b>E-Module:</b>	approx. 3.500 N/mm <sup>2</sup>
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3053109	25 kg-Sack	masoning and grouting of historic masonry (e.g. natural stones, bricks)	<ul style="list-style-type: none"> <li>• approx. 15 l wet mortar each 25 kg-bag</li> <li>• approx. 600 l wet mortar each tonne</li> </ul>



# Masonry & grouting mortars

based on Natural Hydraulic Lime

## HISTOCAL® Traditional masonry & grouting mortar MG IIa (coarse)



<b>Mortar group:</b>	M 5 acc. to EN 998-2, NM IIa acc. to DIN V 18580
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-4.5 mm
<b>Dry bulk density:</b>	approx. 1.65 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 7.0 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. 2.0 N/mm <sup>2</sup>
<b>E-Module:</b>	approx. 7.500 N/mm <sup>2</sup>
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3053509	25 kg-bag	masonry and grouting of historic masonry (e.g. natural stones, bricks), especially in case of buildings subjected to humidity	<ul style="list-style-type: none"> <li>• approx. 15.5 l wet mortar each 25 kg-bag</li> <li>• approx. 620 l wet mortar each tonne</li> </ul>

## HISTOCAL® Traditional masonry & grouting mortar MG IIa (fine)



<b>Mortar group:</b>	M 5 acc. to EN 998-2, NM IIa acc. to DIN V 18580
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1.2 mm
<b>Dry bulk density:</b>	approx. 1.65 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 8.0 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. 2.0 N/mm <sup>2</sup>
<b>E-Module:</b>	approx. 7.500 N/mm <sup>2</sup>
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3053309	25 kg-bag	masonry and grouting of historic masonry (e.g. natural stones, bricks), especially in case of buildings subjected to humidity	<ul style="list-style-type: none"> <li>• approx. 14.5 l wet mortar each 25 kg-bag</li> <li>• approx. 580 l wet mortar each tonne</li> </ul>





# Your notes

## Special products

based on Natural Hydraulic Lime

- CALCEA® Lime contact mortar
- HISTOCAL® Injection mortar M 2.5
- HISTOCAL® Injection mortar M 5
- HISTOCAL® Anchor mortar



# Special products

based on Natural Hydraulic Lime

## CALCEA® Lime contact mortar



<b>Mortar group:</b>	CS II acc. to EN 998-1, P II acc. to DIN V 18550
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1 mm
<b>Dry bulk density:</b>	approx. 1.37 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. 2 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. 1.0 N/mm <sup>2</sup>
<b>E-Module:</b>	n.a.
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3074509	25 kg-bag	for bonding and reinforcing of CALCEA® Lime insulating plaster (interior) and CALCEA® Lime thermal render (exterior) as well as of inside wall insulating boards, as bonding bridge on challenging interior or exterior surfaces, as renovating plaster on viable, capillary open old lime plasters	<ul style="list-style-type: none"> <li>• approx. 25 l wet mortar each 25 kg-bag</li> <li>• approx. 1.000 l wet mortar each tonne</li> </ul>

## HISTOCAL® Injection mortar M 2.5



<b>Mortar group:</b>	M 2.5 acc. to EN 998-2
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-0.7 mm
<b>Dry bulk density:</b>	approx. 1.45 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. > 3.6 N/mm <sup>2</sup>
<b>Expected compressive strength after 56 days:</b>	approx. > 6.5 N/mm <sup>2</sup>
<b>E-Module:</b>	n.a.
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3055110	25 kg-bag	filling cavities, grouting tiny joints and cracks using a caulking gun	<ul style="list-style-type: none"> <li>• approx. 24 l wet mortar each 25 kg-bag</li> <li>• approx. 960 l wet mortar each tonne</li> </ul>



## HISTOCAL® Injection mortar M 5



<b>Mortar group:</b>	M 5 acc. to EN 998-2
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-0.7 mm
<b>Dry bulk density:</b>	approx. 1.45 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. > 5 N/mm <sup>2</sup>
<b>Expected compressive strength after 56 days:</b>	approx. > 10 N/mm <sup>2</sup>
<b>E-Module:</b>	n.a.
<b>Water absorption:</b>	W0



Art.-No.	Delivery	Application	Consumption
A3055210	25 kg-bag	filling cavities, grouting tiny joints and cracks using a caulking gun	<ul style="list-style-type: none"> <li>• approx. 21 l wet mortar each 25 kg-bag</li> <li>• approx. 840 l wet mortar each tonne</li> </ul>

## HISTOCAL® Anchor mortar



<b>Mortar group:</b>	M 5 acc. to EN 998-2
<b>Fire class:</b>	A1
<b>Aggregate size:</b>	0-1 mm
<b>Dry bulk density:</b>	approx. 1.45 kg/dm <sup>3</sup>
<b>Compressive strength 28 days:</b>	approx. > 5 N/mm <sup>2</sup>
<b>Flexural strength 28 days:</b>	approx. > 1.2 N/mm <sup>2</sup>
<b>Expected compressive strength after 56 days:</b>	approx. > 12 N/mm <sup>2</sup>
<b>E-Module:</b>	n.a.
<b>Water absorption:</b>	W0



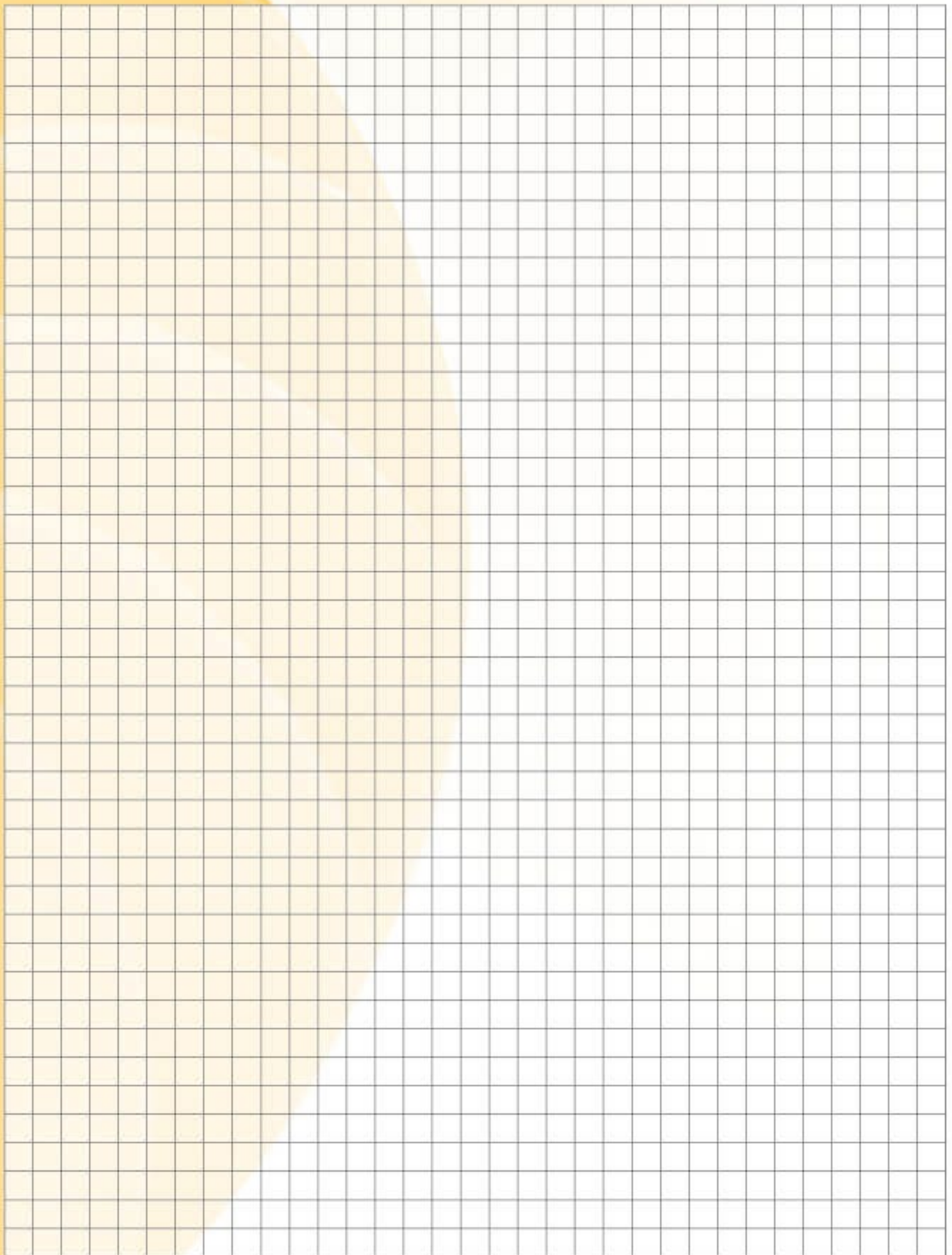
Art.-No.	Delivery	Application	Consumption
A3053709	25 kg-bag	pressing and grouting of anchor systems (in historic masonry, for instance), suitable for anchors with so-called anchor socks, overhead filling of anchor holes possible due to the mortar's soft, plastic consistency	<ul style="list-style-type: none"> <li>• approx. 16 l wet mortar each 25 kg-bag</li> <li>• approx. 640 l wet mortar each tonne</li> </ul>







# Your notes



## Lime coatings & paintings

based on micronized White Lime Hydrate

- CALCEA® Lime glaze
- CALCEA® Lime paint
- CALCEA® Lime slurries
- CALCEA® Lime dispersion and priming slurries
- CALCEA® Lime dispersion and priming paint
- CALCEA® Lime full-tone paint



# Lime coatings & paintings

based on micronized White Lime Hydrate

## CALCEA<sup>®</sup> Lime glaze



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Processing-improving additives < 1.0 %
- Aggregate size:** < 10 µm
- Colour:**
- White
  - Ex work tinting on request\*



Art.-No.	Delivery	Application	Consumption
A6091602	15 kg-bucket (white)	non-filling lime coating for interior and exterior mineral surfaces, in particular for ecologically-relevant and heritage-preserving construction projects, suitable for all absorbent and mineral substrates such as plaster-, stucco-, natural stone surfaces and old mineral coatings	for 2-layer paint structure, depending on surface:
A6091017	5 kg-bucket (white)		• approx. 0.10-0.20 kg/m <sup>2</sup> each layer
A6091603	15 kg-bucket (tinted)		• approx. 37.5-75.0 m <sup>2</sup> each 15 kg-bucket
A6091020	5 kg-bucket (tinted)		

## CALCEA<sup>®</sup> Lime paint



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Processing-improving additives < 1.0 %
- Aggregate size:** < 40 µm
- Colour:**
- White
  - Ex work tinting on request\*



Art.-No.	Delivery	Application	Consumption
A6091002	20 kg-bucket (white)	easily filling lime coating for interior and exterior mineral surfaces, in particular for ecologically-relevant and heritage-preserving construction projects, suitable for all absorbent and mineral surfaces such as plaster, stucco or natural stone surfaces and old mineral coatings	for 2-layer paint structure, depending on surface:
A6091010	5 kg-bucket (white)		• approx. 0.30-0.35 kg/m <sup>2</sup> each layer
A6091012	20 kg-bucket (tinted)		• approx. 28.5-33.0 m <sup>2</sup> each 20 kg-bucket
A6091011	5 kg-bucket (tinted)		

\*[...] Self-toning possible with CALCEA<sup>®</sup> Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.

# Lime coatings & paintings

based on micronized White Lime Hydrate

## CALCEA® Lime slurries



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Processing-improving additives < 1.0 %
- Aggregate size:** < 130 µm
- Colour:**
- White
  - Ex work tinting on request\*



Art.-No.	Delivery	Application	Consumption
A6091003	20 kg-bucket (white)	easily filling lime coating for interior and exterior mineral surfaces, in particular for ecologically-relevant and heritage-preserving construction projects, suitable for all absorbent and mineral surfaces such as plaster, stucco or natural stone surfaces and old mineral coatings	for 2-layer paint structure, depending on surface:
A6091015	5 kg-bucket (white)		• approx. 0.35-0.45 kg/m <sup>2</sup> each layer
A6091013	20 kg-bucket (tinted)		• approx. 22.0-28.5 m <sup>2</sup> each 20 kg-bucket
A6091016	5 kg-bucket (tinted)		

## CALCEA® Lime dispersion and priming slurries



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Acrylic dispersion
  - Cellulose fibres
  - Organic additives < 4.5 %
- Aggregate size:** < 130 µm
- Colour:**
- White
  - Ex work tinting on request\*



Art.-No.	Delivery	Application	Consumption
A6091508	20 kg-bucket (white)	slightly slurrified priming and adhesion bridge on organically bound old coatings, plastic dispersions and plasterboard as well as primer for poorly absorbent surfaces, acts slightly levelling in case of strongly differing absorbencies and slightly insulating in case of discoloring of surfaces, suitable for all mineral surfaces such as gypsum, plaster, stucco and natural stone surfaces, for capping of shrinkage cracks up to a crack width of 0.2 mm	for 2-layer paint structure, depending on surface:
A6091510	5 kg-bucket (white)		• approx. 0.35-0.50 kg/m <sup>2</sup> each layer
A6091509	20 kg-bucket (tinted)		• approx. 20.0-28.5 m <sup>2</sup> each 20 kg-bucket
A6091511	5 kg-bucket (tinted)		

\*[...] Self-toning possible with CALCEA® Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.

# Lime coatings & paintings

based on micronized White Lime Hydrate

FASCINATION SALE

**OTTERBEIN**



... SEIT JAHRTAUSENDEN BEWAHRT

## CALCEA® Lime dispersion and priming paint



### Material composition:

- White lime hydrate (micronized)
- Mineral fillers
- Water
- Acrylic dispersion
- Cellulose fibres
- Organic additives < 4.5 %

### Aggregate size:

< 15 µm

### Colour:

- White
- Ex work tinting on request\*



Art.-No.	Delivery	Application	Consumption
A6091004	20 kg-bucket (white)	slightly slurried priming and adhesion bridge on organically bound old coatings, plastic dispersions and plasterboard as well as primer for poorly absorbent surfaces, acts slightly levelling in case of strongly differing absorbencies and slightly insulating in case of discoloring of surfaces, suitable for all mineral surfaces such as gypsum, plaster, stucco and natural stone surfaces, for capping of shrinkage cracks up to a crack width of 0.2 mm	for 2-layer paint structure, depending on surface: • approx. 0.35-0.50 kg/m <sup>2</sup> each layer • approx. 20.0-28.5 m <sup>2</sup> each 20 kg-bucket
A6091018	5 kg-bucket (white)		
A6091019	20 kg-bucket (tinted)		
A6191020	5 kg-bucket (tinted)		

## CALCEA® Lime full-tone paint



### Material composition:

- White lime hydrate (micronized)
- Mineral fillers
- Lime-resistant pigments
- Water
- Processing-improving additives < 1.0 %

### Aggregate size:

< 80 µm

### Colour:

- See tint designation
- CALCEA® Lime full-tone paints are mixable without restrictions amongst each other and with the other CALCEA® paints, fillers, slurries and glazes.



Art.-No.	Delivery	Application	Consumption
A6091005 (+ colour)	1 kg-tin	easily filling pigmented lime coating for interior and exterior mineral surfaces, in particular for ecologically-relevant and heritage-preserving construction projects, tinting colours for all CALCEA® Lime coatings, paintings and fillers, suitable for all absorbent and mineral surfaces such as plaster, stucco and natural stone surfaces	Depending on surface: • approx. 0.25 kg/m <sup>2</sup> each layer

cobalt blue

orange-ochre

oxide red

oxide brown

oxide black

ochre

titanium white

chrome oxide green

light yellow

umbra

## Lime fillers

based on micronized White Lime Hydrate

- CALCEA® Lime filler (coarse)
- CALCEA® Lime filler (fine)
- CALCEA® Lime filler (fibre-reinforced 0.2)
- CALCEA® Lime filler (fibre-reinforced 0.6)
- CALCEA® Lime gloss filler



# Lime fillers

based on micronized White Lime Hydrate

## CALCEA® Lime filler (coarse)



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Processing-improving additives < 1.0 %
- Aggregate size:** < 250 µm
- Colour:**
- Antique white
  - Ex work tinting on request. Self-toning possible with CALCEA® Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.



Art.-No.	Delivery	Application	Consumption
A6091108	20 kg-bucket (white)	easy-to-process filler for leveling and homogenization of mineral surfaces, repairing smaller failures, bumps and closing cracks, leveling irregularly ground plaster surfaces	for 2-layer paint structure, depending on surface: <ul style="list-style-type: none"> <li>• approx. 1-1.5 kg/m<sup>2</sup> each layer (approx. 1 mm)</li> <li>• approx. 7.0-10.0 m<sup>2</sup> each 20 kg-bucket</li> <li>• maximum layer thickness: 5 mm</li> </ul>
A6091021	5 kg-bucket (white)		
A6091022	20 kg-bucket (tinted)		
A6091023	5 kg-bucket (tinted)		

## CALCEA® Lime filler (fine)



- Material composition:**
- White lime hydrate (micronized)
  - Mineral fillers
  - Water
  - Processing-improving additives < 1.0 %
- Aggregate size:** < 50 µm
- Colour:**
- Antique white
  - Ex work tinting on request. Self-toning possible with CALCEA® Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.



Art.-No.	Delivery	Application	Consumption
A6091208	20 kg-bucket (white)	easy-to-process filler for leveling and homogenization of mineral surfaces, repairing smaller failures, bumps and closing cracks, leveling irregularly ground plaster surfaces	for 2-layer paint structure, depending on surface: <ul style="list-style-type: none"> <li>• approx. 0.75-1 kg/m<sup>2</sup> each layer (approx. 1 mm)</li> <li>• approx. 10.0-13.0 m<sup>2</sup> each 20 kg-bucket</li> <li>• maximum layer thickness: 2 mm</li> </ul>
A6091024	5 kg-bucket (white)		
A6091025	20 kg-bucket (tinted)		
A6091026	5 kg-bucket (tinted)		

# Lime fillers

based on micronized White Lime Hydrate

## CALCEA® Lime filler (fibre-reinforced 0.2)



**Material composition:**

- White lime hydrate (micronized)
- Mineral fillers
- Cellulose fibres
- Water
- Processing-improving additives < 1.0 %

**Aggregate size:**

< 200 µm

**Colour:**

- Antique white
- Ex work tinting on request. Self-toning possible with CALCEA® Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.



Art.-No.	Delivery	Application	Consumption
A6091408	20 kg-bucket (white)	easy-to-process filler for leveling and homogenization of mineral surfaces, repairing smaller failures, bumps and closing cracks, leveling irregularly ground or smoothed plaster surfaces	for 2-layer paint structure, depending on surface: • approx. 1.2-1.7 kg/m <sup>2</sup> each layer (approx. 1.2 mm) • approx. 6.0-8.0 m <sup>2</sup> each 20 kg-bucket • maximum layer thickness: 4 mm
A6091027	5 kg-bucket (white)		
A6091028	20 kg-bucket (tinted)		
A6091029	5 kg-bucket (tinted)		

## CALCEA® Lime filler (fibre-reinforced 0.6)



**Material composition:**

- White lime hydrate (micronized)
- Mineral fillers
- Cellulose fibres
- Water
- Processing-improving additives < 1.0 %

**Aggregate size:**

< 600 µm

**Colour:**

- Antique white
- Ex work tinting on request. Self-toning possible with CALCEA® Lime full-tone paint as well as lime-resistant dry pigments. The pigment compatibility must be determined by way of samples.



Art.-No.	Delivery	Application	Consumption
A6091308	20 kg-bucket (white)	easy-to-process filler for leveling and homogenization of mineral surfaces, repairing smaller failures, bumps and closing cracks, leveling irregularly ground or smoothed plaster surfaces	for 2-layer paint structure, depending on surface: • approx. 2.4-3 kg/m <sup>2</sup> each layer (approx. 2 mm) • approx. 3.0-4.0 m <sup>2</sup> each 20 kg-bucket • maximum layer thickness: 8 mm
A6091030	5 kg-bucket (white)		
A6091031	20 kg-bucket (tinted)		
A6091032	5 kg-bucket (tinted)		

Notice: Customized products and individual mixtures on request – as far as feasible with respect to raw material availability and production planning.





# Colours

available for ex work tinting lime paints and fillers



1102  
poeny

1114  
baltic pearl

1128  
melting ice

1103  
chic cream

1125  
linen

1143  
coral white

11104  
quince jelly



1144  
light feather

1115  
delicate pink

1118  
historic white

1124  
symphony

11177  
up high

11138  
pygmy

11112  
straw



IV 216  
Gruffalo

IV 217  
fine brick

IV 213  
foreign home

IV 207  
south of here

IV 280  
squirrel

I 278  
magnolia

II 278  
morning calm



III 215  
Masada

IV 255  
stubblefield

II 265  
pilgrimage

II 261  
bristle

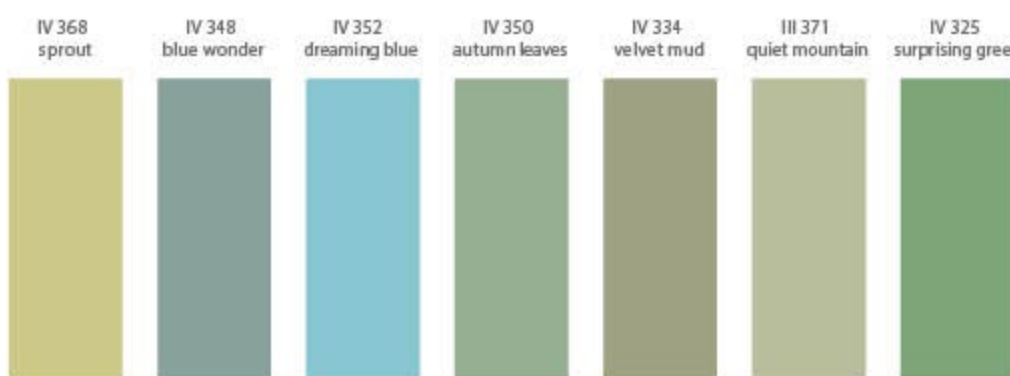
I 201  
powdery pink

I 279  
caffe latte

III 204  
earthy orange



IV 367 ceder tree    IV 318 meaning blue    IV 331 literary blue    IV 321 spirit level    IV 361 wet grass    III 362 blue bird    III 316 lily pond



IV 368 sprout    IV 348 blue wonder    IV 352 dreaming blue    IV 350 autumn leaves    IV 334 velvet mud    III 371 quiet mountain    IV 325 surprising green



IV 415 underground    IV 437 pure brown    IV 451 fireplace room    IV 436 aubergine    IV 421 wadden    IV 438 swampy green



II 401 swan's egg    III 407 coffee break    II 410 warm taupe    III 485 native green    III 424 hilles violet    IV 426 gravel

Due to printing techniques and conditions, original colour tones may deviate from those presented in this product catalog. Hence, a guarantee for complete colour fidelity won't be provided. Claims due to colour deviations driven by the reasons named above shall not be asserted.

There will be no taking back of mixed products or colour tones. Reclamations of mixed products or colour tones are hereby explicitly excluded. Others colours on request.

# Build-up recommendations

system solutions for new and old buildings



## New buildings:


- Interior-Eco, regular / challenging masonry
- Interior-Eco-Insulation, regular / challenging masonry
- Face concrete
- Plasterboards EcoPlus
- Tiles on lime plaster, regular / challenging masonry
- Exterior-Eco, regular / challenging masonry
- Exterior-EcoPlus, regular / challenging masonry
- Exterior-Eco-Insulation, regular / challenging masonry

## Old buildings:

- Interior-Eco, timber frame & masonry
- Interior-Eco-Insulation, timber frame & masonry
- Tiles on lime plaster, timber frame & masonry
- Exterior-Eco 1 & 2
- Exterior-EcoPlus 1 & 2
- Interior-Eco-Insulation, timber frame & masonry

For project specific advices please contact our experts of our sales force as well as our technical product support. The presented recommendations are based on the know-how, that Zement- und Kalkwerke OTTERBEIN has established over many years. Applying our products always requires following and complying to the currently valid version of the respective technical datasheets. The presented system solutions also require complying to all relevant and currently valid regulations as well as that all works are carried out according to the highest technical, professional and artisan standards. No liability is taken for any errors or inaccuracies in this product catalog. Also, legal claims of all forms cannot be derived from the presented system solutions and associated application guidelines.

Interior walls	Interior-Eco, regular masonry	Interior-Eco, challenging masonry
High thermal insulating brick masonry	✓	
High thermal insulating aerated concrete masonry	✓	
Regular masonry (brick, pumice)	✓	
Sand-lime brickwork	✓	
Concrete		✓
Mixed brickwork		✓
Plasterboards		
Recommended system build-up		
	<ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar</li> <li>② CALCEA® Lime base plaster or CAREMA® Lime-clay base plaster</li> <li>③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)</li> <li>④ CALCEA® Lime paint* or CALCEA® Lime full-tone paint* or CALCEA® Lime glaze* or CALCEA® Lime slurries* or CALCEA® Lime gloss filler*</li> </ol>	<ol style="list-style-type: none"> <li>① CALCEA® Lime contact mortar</li> <li>② CALCEA® Lime base plaster or CAREMA® Lime-clay base plaster</li> <li>③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)</li> <li>④ CALCEA® Lime paint* or CALCEA® Lime full-tone paint* or CALCEA® Lime glaze* or CALCEA® Lime slurries* or CALCEA® Lime gloss filler*</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>② • Apply desired CALCEA®/CAREMA®-base coat in two working steps (wet-on-wet)</li> <li>③ • Remove sintered layer • Pre-wet surface • Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)</li> <li>④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece) • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint, / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime contact mortar and comb plastered surface</li> <li>② • Apply desired CALCEA®/CAREMA®-base coat in two working steps (wet-on-wet)</li> <li>③ • Remove sintered layer • Pre-wet surface • Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)</li> <li>④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece) • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint, / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>
Legend:	<ol style="list-style-type: none"> <li>① Surface preparation</li> <li>② Base coat</li> <li>③ Finishing coat</li> <li>④ Top coat</li> </ol> <p>* Top coat optional</p>	

Interior walls	Interior-Eco-Insulation, regular masonry	Interior-Eco-Insulation, challenging masonry
High thermal insulating brick masonry	✓	
High thermal insulating aerated concrete masonry	✓	
Regular masonry (brick, pumice)	✓	
Sand-lime brickwork	✓	
Concrete		✓
Mixed brickwork		✓
Plasterboards		
Recommended system build-up		
Application guidelines	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>② • Apply CALCEA® Lime thermal plaster (interior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer • Remove sintered layer • Apply CALCEA® Lime contact mortar</li> <li>③ • Pre-wet surface • Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer) • Slightly grind surface designated for top coat</li> <li>④ (e. g. using a grinding fleece) • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime contact mortar and comb plastered surface</li> <li>② • Apply CALCEA® Lime thermal plaster (interior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer • Remove sintered layer • Apply CALCEA® Lime contact mortar</li> <li>③ • Pre-wet surface • Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer) • Slightly grind surface designated for top coat</li> <li>④ (e. g. using a grinding fleece) • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>

## Face concrete

## Plasterboards EcoPlus



- ④ CALCEA® Lime paint or  
 CALCEA® Lime full-tone paint or  
 CALCEA® Lime glaze or  
 CALCEA® Lime slurries or  
 CALCEA® Lime gloss filler or  
 CALCEA® Lime filler (fibre-reinforced 0.2) or  
 CALCEA® Lime filler (fibre-reinforced 0.6) or  
 CALCEA® Lime filler (fine) or  
 CALCEA® Lime filler (coarse)



- ① CALCEA® Lime dispersion and priming slurries  
 ② CALCEA® Lime contact mortar  
 ③ CALCEA® Fine lime plaster or  
 CAREMA® Lime-clay fine plaster or  
 CALCEA® Lime skimming plaster or  
 CALCEA® Lime filler (fibre-reinforced 0.2) or  
 CALCEA® Lime filler (fibre-reinforced 0.6) or  
 CALCEA® Lime filler (fine) or  
 CALCEA® Lime filler (coarse)  
 ④ CALCEA® Lime paint\* or  
 CALCEA® Lime full-tone paint\* or  
 CALCEA® Lime glaze\* or  
 CALCEA® Lime slurries\* or  
 CALCEA® Lime gloss filler\*

- ④ • Check surface absorbency  
 • Pre-wet surface according to its absorbency  
 • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)

- ① • Apply CALCEA® Lime dispersion and priming slurries by painting or spraying  
 ② • Apply CALCEA® Lime contact mortar (max. thickness 5 mm)  
 ③ • Pre-wet surface  
 • Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)  
 ④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece)  
 • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)

### Legend:

- ① Surface preparation  
 ② Base coat  
 ③ Finishing coat  
 ④ Top coat  
 \* Top coat optional

Interior walls	Tiles on lime plaster, regular masonry	Tiles on lime plaster, challenging masonry
High thermal insulating brick masonry	✓	
High thermal insulating aerated concrete masonry	✓	
Regular masonry (brick, pumice)	✓	
Sand-lime brickwork	✓	
Concrete		✓
Mixed brickwork		✓
Plasterboards		
Recommended system build-up		
	<ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse) or HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>③ Otterfix FX Flexible adhesive** + Tiles</li> </ol>	<ol style="list-style-type: none"> <li>① CALCEA® Lime contact mortar</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse) or HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>③ Otterfix FX Flexible adhesive** + Tiles</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>② • Apply desired HISTOCAL®-priming coat in two working steps (wet-on-wet) • Fully smooth plastered surface with grated scraper • Ensure waiting time as long as possible (min. 8 weeks) • Apply mineral sealing to areas exposed to moisture and splash water</li> <li>③ • Apply Otterfix FX Flexible adhesive with a notch trowel in order to adhere the tiles</li> </ol>	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime contact mortar and comb plastered surface</li> <li>② • Apply desired HISTOCAL®-priming coat in two working steps (wet-on-wet) • Fully smooth plastered surface with grated scraper • Ensure waiting time as long as possible (min. 8 weeks) • Apply mineral sealing to areas exposed to moisture and splash water</li> <li>③ • Apply Otterfix FX Flexible adhesive with a notch trowel in order to adhere the tiles</li> </ol>



# Built-up recommendations new buildings

system solutions for exterior walls

Exterior-Eco,  
regular masonry

Exterior-EcoPlus,  
regular masonry



- ① CALCEA® Lime spatterdashing mortar
- ② CALCEA® Lime base plaster
- ③ CALCEA® Fine lime plaster
- ④ CALCEA® Lime paint or  
CALCEA® Lime full-tone paint or  
CALCEA® Lime glaze or  
CALCEA® Lime slurries

- ① CALCEA® Lime spatterdashing mortar
- ② HISTOCAL® Traditional pure lime render CS II (coarse)
- ③ HISTOCAL® Traditional pure lime render CS II (fine)
- ④ CALCEA® Lime paint or  
CALCEA® Lime full-tone paint or  
CALCEA® Lime glaze or  
CALCEA® Lime slurries

- ① • Check surface absorbency
  - Pre-wet surface according to its absorbency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- ② • Apply CALCEA® Lime base plaster in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)
- ③ • Remove sintered layer
  - Pre-wet surface
  - Apply CALCEA® Fine lime plaster
- ④ • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
  - Process top coat in order to ensure nine cycles of drying and moisturing

- ① • Check surface absorbency
  - Pre-wet surface according to its absorbency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- ② • Apply HISTOCAL® Traditional pure lime render CS II (coarse) in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)
- ③ • Remove sintered layer
  - Pre-wet surface
  - Apply HISTOCAL® Traditional pure lime render CS II (fine)
  - Felt finishing coat or alternatively smooth it with grated scraper
- ④ • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
  - Process top coat in order to ensure nine cycles of drying and moisturing

**Legend:**

- ① Surface preparation
- ② Base coat
- ③ Finishing coat
- ④ Top coat
- \* Top coat optional
- \*\* Not presented in this catalogue. Available on request.

Exterior walls	Exterior-Eco, challenging masonry	Exterior-EcoPlus, challenging masonry
High thermal insulating brick masonry		
High thermal insulating aerated concrete masonry		
Regular masonry (brick, pumice)		
Sand-lime brickwork		
Concrete	✓	✓
Mixed brickwork	✓	✓
Plasterboards		
Recommended system build-up	 <ol style="list-style-type: none"> <li>① CALCEA® Lime contact mortar</li> <li>② CALCEA® Lime base plaster</li> <li>③ CALCEA® Fine lime plaster</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>	 <ol style="list-style-type: none"> <li>① CALCEA® Lime contact mortar</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse)</li> <li>③ HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime contact mortar and comb plastered surface</li> <li>② • Apply CALCEA® Lime base plaster in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)</li> <li>③ • Remove sintered layer • Pre-wet surface • Apply CALCEA® Fine lime plaster</li> <li>④ • Check surface absorbency • Pre-wet surface according to its absorbency • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers) • Process top coat in order to ensure nine cycles of drying and moisturing</li> </ol>	<ol style="list-style-type: none"> <li>① • Check surface absorbency • Pre-wet surface according to its absorbency • Apply CALCEA® Lime contact mortar and comb plastered surface</li> <li>② • Apply HISTOCAL® Traditional pure lime render CS II (coarse) in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)</li> <li>③ • Remove sintered layer • Pre-wet surface • Apply HISTOCAL® Traditional pure lime render CS II (fine) • Felt finishing coat or alternatively smooth it with grated scraper</li> <li>④ • Check surface absorbency • Pre-wet surface according to its absorbency • Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers) • Process top coat in order to ensure nine cycles of drying and moisturing</li> </ol>

# Built-up recommendations new buildings

system solutions for exterior walls

## Exterior-Eco-Insulation, regular masonry

## Exterior-Eco-Insulation, challenging masonry



- ① CALCEA® Lime spatterdashing mortar
- ② CALCEA® Lime thermal render (exterior)
- ②b CALCEA® Lime contact mortar and Reinforcing mesh OP 64\*\*
- ③ CALCEA® Lime contact mortar or OP Lime felt render\*\*
- ④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries

- ① CALCEA® Lime contact mortar
- ② CALCEA® Lime thermal render (exterior)
- ②b CALCEA® Lime contact mortar and Reinforcing mesh OP 64\*\*
- ③ CALCEA® Lime contact mortar or OP Lime felt render\*\*
- ④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries

- ① • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- ② • Apply CALCEA® Lime thermal render (exterior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer
  - Remove sintered layer
  - Apply CALCEA® Lime contact mortar with Reinforcing mesh OP 64
- ③ • Pre-wet surface
  - Apply CALCEA® Lime contact mortar or OP Lime felt render
  - Felt chosen finishing coat
- ④ • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
  - Process top coat in order to ensure nine cycles of drying and moisturing



- ① • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Apply CALCEA® Lime contact mortar and comb plastered surface
- ② • Apply CALCEA® Lime thermal render (exterior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer
  - Remove sintered layer
  - Apply CALCEA® Lime contact mortar with Reinforcing mesh OP 64
- ③ • Pre-wet surface
  - Apply CALCEA® Lime contact mortar or OP Lime felt render
  - Felt chosen finishing coat
- ④ • Check surface absorbency
  - Pre-wet surface according to its absorbency
  - Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
  - Process top coat in order to ensure nine cycles of drying and moisturing

### Legend:

- ① Surface preparation
- ② Base coat
- ③ Finishing coat
- ④ Top coat

\* Top coat optional

\*\* Not presented in this catalogue. Available on request.

Interior walls	Interior-Eco, timber frame	Interior-Eco, masonry
Timber frame, straw-clay (cob) partitions		
Timber frame, clay-brick partitions	✓	
Timber frame, solid-brick partitions	✓	
Timber frame, other partitions		
Brick		✓
Natural stone		✓
Hollow block		✓
Clay bricks		✓
Recommended system build-up		
	<ol style="list-style-type: none"> <li>① Plaster base (e. g. brick wire mesh or the like)</li> <li>② CALCEA® Lime base plaster or CAREMA® Lime-clay base plaster</li> <li>③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)</li> <li>④ CALCEA® Lime paint* or CALCEA® Lime full-tone paint* or CALCEA® Lime glaze* or CALCEA® Lime slurries* or CALCEA® Lime gloss filler*</li> </ol>	<ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar</li> <li>② CALCEA® Lime base plaster or CAREMA® Lime-clay base plaster</li> <li>③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)</li> <li>④ CALCEA® Lime paint* or CALCEA® Lime full-tone paint* or CALCEA® Lime glaze* or CALCEA® Lime slurries* or CALCEA® Lime gloss filler*</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① • Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Attach plaster base</li> <li>• Pre-wet surface according to its absorbency</li> <li>② • Apply desired CALCEA®/CAREMA®-base coat in two working steps (wet-on-wet)</li> <li>③ • Remove sintered layer</li> <li>• Pre-wet surface</li> <li>• Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)</li> <li>④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece)</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>	<ol style="list-style-type: none"> <li>① • Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>• With clay bricks an application of CALCEA® Lime spatterdashing mortar by brush is recommended to achieve a sufficient bonding</li> <li>② • Apply desired CALCEA®/CAREMA®-base coat in two working steps (wet-on-wet)</li> <li>③ • Remove sintered layer</li> <li>• Pre-wet surface</li> <li>• Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)</li> <li>④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece)</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)</li> </ol>

# Built-up recommendations old buildings

system solutions for interior walls

## Interior-Eco-Insulation, timber frame

## Interior-Eco-Insulation, masonry



- ① CALCEA® Lime spatterdashing mortar and Plaster base (e. g. Wehnet®-thermal plaster carrying support or the like)
- ② CALCEA® Lime thermal plaster (interior) and CALCEA® Lime contact mortar
- ③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)
- ④ CALCEA® Lime paint\* or CALCEA® Lime full-tone paint\* or CALCEA® Lime glaze\* or CALCEA® Lime slurries\* or CALCEA® Lime gloss filler\*



- ① CALCEA® Lime spatterdashing mortar
- ②a CALCEA® Lime thermal plaster (interior) and ②b CALCEA® Lime contact mortar
- ③ CALCEA® Fine lime plaster or CAREMA® Lime-clay fine plaster or CALCEA® Lime skimming plaster or CALCEA® Lime filler (fibre-reinforced 0.2) or CALCEA® Lime filler (fibre-reinforced 0.6) or CALCEA® Lime filler (fine) or CALCEA® Lime filler (coarse)
- ④ CALCEA® Lime paint\* or CALCEA® Lime full-tone paint\* or CALCEA® Lime glaze\* or CALCEA® Lime slurries\* or CALCEA® Lime gloss filler\*

- ① • Remove old plaster (if any)
- Check surface absorbcency
- Pre-wet surface according to its absorbcency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- Attach plaster base
- ② • Apply CALCEA® Lime thermal plaster (interior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer
- Remove sintered layer
- Apply CALCEA® Lime contact mortar
- ③ • Pre-wet surface
- Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)
- ④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece)
- Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)



- ① • Remove old plaster (if any)
- Check surface absorbcency
- Pre-wet surface according to its absorbcency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- With clay bricks an application of CALCEA® Lime spatterdashing mortar by brush is recommended to achieve a sufficient bonding
- ② • Apply CALCEA® Lime thermal plaster (interior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer
- Remove sintered layer
- Apply CALCEA® Lime contact mortar
- ③ • Pre-wet surface
- Apply desired CALCEA®/CAREMA®-finishing coat or CALCEA® Lime filler (single coating layer)
- ④ • Slightly grind surface designated for top coat (e. g. using a grinding fleece)
- Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint / Lime slurries (two coating layers) or CALCEA® Lime gloss filler (multiple coating layers)

### Legend:

- ① Surface preparation
- ② Base coat
- ③ Finishing coat
- ④ Top coat
- Top coat optional

Interior walls	Tiles on lime plaster, timber frame	Tiles on lime plaster, masonry
Timber frame, straw-clay (cob) partitions		
Timber frame, clay-brick partitions	✓	
Timber frame, solid-brick partitions	✓	
Timber frame, other partitions		
Brick		✓
Natural stone		✓
Hollow block		✓
Recommended system build-up		
	<ol style="list-style-type: none"> <li>① Plaster base (e.g. brick wire mesh or the like)</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse) or HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>③ Otterfix FX Flexible adhesive** + Tiles</li> </ol>	<ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse) or HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>③ Otterfix FX Flexible adhesive** + Tiles</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① <ul style="list-style-type: none"> <li>• Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Attach plaster base</li> <li>• Pre-wet surface according to its absorbency</li> </ul> </li> <li>② <ul style="list-style-type: none"> <li>• Apply desired HISTOCAL®-priming coat in two working steps (wet-on-wet)</li> <li>• Fully smooth plastered surface with grated scraper</li> <li>• Ensure waiting time as long as possible (min. 8 weeks)</li> <li>• Apply mineral sealing to areas exposed to moisture and splash water</li> </ul> </li> <li>③ <ul style="list-style-type: none"> <li>• Apply Otterfix FX Flexible adhesive with a notch trowel in order to adhere the tiles</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>① <ul style="list-style-type: none"> <li>• Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> </ul> </li> <li>② <ul style="list-style-type: none"> <li>• Apply desired HISTOCAL®-priming coat in two working steps (wet-on-wet)</li> <li>• Fully smooth plastered surface with grated scraper</li> <li>• Ensure waiting time as long as possible (min. 8 weeks)</li> <li>• Apply mineral sealing to areas exposed to moisture and splash water</li> </ul> </li> <li>③ <ul style="list-style-type: none"> <li>• Apply Otterfix FX Flexible adhesive with a notch trowel in order to adhere the tiles</li> </ul> </li> </ol>



Exterior walls	Exterior-Eco 1	Exterior-EcoPlus 1
Timber frame, straw-clay (cob) partitions		
Timber frame, clay-brick partitions	✓	✓
Timber frame, solid-brick partitions		
Timber frame, other partitions		
Brick		
Natural stone		
Hollow block		
Clay bricks		
Recommended system build-up		
	<ol style="list-style-type: none"> <li>① Plaster base (e. g. brick wire mesh or the like)</li> <li>② CALCEA® Lime base plaster</li> <li>③ CALCEA® Fine lime plaster</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>	<ol style="list-style-type: none"> <li>① Plaster base (e. g. brick wire mesh or the like)</li> <li>② HISTOCAL® Traditional pure lime render CS II (coarse)</li> <li>③ HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① • Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Attach plaster base</li> <li>• Pre-wet surface according to its absorbency</li> <li>② • Apply CALCEA® Lime base plaster in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)</li> <li>③ • Remove sintered layer</li> <li>• Pre-wet surface</li> <li>• Apply CALCEA® Fine lime plaster</li> <li>④ • Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)</li> <li>• Process top coat in order to ensure nine cycles of drying and moisturing</li> </ol>	<ol style="list-style-type: none"> <li>① • Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Attach plaster base</li> <li>• Pre-wet surface according to its absorbency</li> <li>② • Apply HISTOCAL® Traditional pure lime render CS II (coarse) in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)</li> <li>③ • Remove sintered layer</li> <li>• Pre-wet surface</li> <li>• Apply HISTOCAL® Traditional pure lime render CS II (fine)</li> <li>• Felt finishing coat or alternatively smooth it with grated scraper</li> <li>④ • Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)</li> <li>• Process top coat in order to ensure nine cycles of drying and moisturing</li> </ol>



# Built-up recommendations old buildings

system solutions for exterior walls

## Exterior-Eco 2

## Exterior-EcoPlus 2



- ① CALCEA® Lime spatterdashing mortar
- ② CALCEA® Lime base plaster
- ③ CALCEA® Fine lime plaster
- ④ CALCEA® Lime paint or  
CALCEA® Lime full-tone paint or  
CALCEA® Lime glaze or  
CALCEA® Lime slurries



- ① CALCEA® Lime spatterdashing mortar
- ② HISTOCAL® Traditional pure lime render CS II (coarse)
- ③ HISTOCAL® Traditional pure lime render CS II (fine)
- ④ CALCEA® Lime paint or  
CALCEA® Lime full-tone paint or  
CALCEA® Lime glaze or  
CALCEA® Lime slurries

- ① • Remove old plaster (if any)
- Check surface absorbency
- Pre-wet surface according to its absorbency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- With clay bricks an application of CALCEA® Lime spatterdashing mortar by brush is recommended to achieve a sufficient bonding
- ② • Apply CALCEA® Lime base plaster in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)
- ③ • Remove sintered layer
- Pre-wet surface
- Apply CALCEA® Fine lime plaster
- ④ • Check surface absorbency
- Pre-wet surface according to its absorbency
- Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
- Process top coat in order to ensure nine cycles of drying and moisturing

- ① • Remove old plaster (if any)
- Check surface absorbency
- Pre-wet surface according to its absorbency
- Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface
- With clay bricks an application of CALCEA® Lime spatterdashing mortar by brush is recommended to achieve a sufficient bonding
- ② • Apply HISTOCAL® Traditional pure lime render CS II (coarse) in two working steps (wet-on-wet) (min. thickness 15 mm, average thickness 20 mm)
- ③ • Remove sintered layer
- Pre-wet surface
- Apply HISTOCAL® Traditional pure lime render CS II (fine)
- Felt finishing coat or alternatively smooth it with grated scraper
- ④ • Check surface absorbency
- Pre-wet surface according to its absorbency
- Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)
- Process top coat in order to ensure nine cycles of drying and moisturing

### Legend:

- ① Surface preparation
- ② Base coat
- ③ Finishing coat
- ④ Top coat
- Top coat optional

Exterior walls	Interior-Eco-Insulation, timber frame	Interior-Eco-Insulation, masonry
Timber frame, straw-clay (cob) partitions		
Timber frame, clay-brick partitions	✓	
Timber frame, solid-brick partitions	✓	
Timber frame, other partitions		
Brick		✓
Natural stone		✓
Hollow block		✓
Clay bricks		✓
Recommended system build-up	 <ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar and Plaster base (e. g. Welnet®-thermal plaster carrying support or the like)</li> <li>②a CALCEA® Lime thermal render (exterior) and</li> <li>②b CALCEA® Lime contact mortar and Reinforcing mesh OP 64**</li> <li>③ CALCEA® Lime contact mortar or OP Lime felt render**</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>	 <ol style="list-style-type: none"> <li>① CALCEA® Lime spatterdashing mortar</li> <li>②a CALCEA® Lime thermal render (exterior)and</li> <li>②b CALCEA® Lime contact mortar and Reinforcing mesh OP 64**</li> <li>③ CALCEA® Lime contact mortar or OP Lime felt render**</li> <li>④ CALCEA® Lime paint or CALCEA® Lime full-tone paint or CALCEA® Lime glaze or CALCEA® Lime slurries</li> </ol>
Application guidelines	<ol style="list-style-type: none"> <li>① <ul style="list-style-type: none"> <li>• Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>• Attach plaster base</li> </ul> </li> <li>② <ul style="list-style-type: none"> <li>• Apply CALCEA® Lime thermal render (exterior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer</li> <li>• Remove sintered layer</li> <li>• Apply CALCEA® Lime contact mortar with Reinforcing mesh OP 64</li> </ul> </li> <li>③ <ul style="list-style-type: none"> <li>• Pre-wet surface</li> <li>• Apply CALCEA® Lime contact mortar or OP Lime felt render</li> <li>• Felt chosen finishing coat</li> </ul> </li> <li>④ <ul style="list-style-type: none"> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)</li> <li>• Process top coat in order to ensure nine cycles of drying and moisturing</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>① <ul style="list-style-type: none"> <li>• Remove old plaster (if any)</li> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Apply CALCEA® Lime spatterdashing mortar as rough cast fully covering the designated surface</li> <li>• With clay bricks an application of CALCEA® Lime spatterdashing mortar by brush is recommended to achieve a sufficient bonding</li> </ul> </li> <li>② <ul style="list-style-type: none"> <li>• Apply CALCEA® Lime thermal render (exterior) up to a max. thickness of 10 cm in several layers (max. thickness of each layer 4 cm), roughen each layer</li> <li>• Remove sintered layer</li> <li>• Apply CALCEA® Lime contact mortar with Reinforcing mesh OP 64</li> </ul> </li> <li>③ <ul style="list-style-type: none"> <li>• Pre-wet surface</li> <li>• Apply CALCEA® Lime contact mortar or OP Lime felt render</li> <li>• Felt chosen finishing coat</li> </ul> </li> <li>④ <ul style="list-style-type: none"> <li>• Check surface absorbency</li> <li>• Pre-wet surface according to its absorbency</li> <li>• Design surface according to individual preferences with CALCEA® Lime paint / Lime glaze / Lime full-tone paint or CALCEA® Lime slurries (two coating layers)</li> <li>• Process top coat in order to ensure nine cycles of drying and moisturing</li> </ul> </li> </ol>



# Your notes

A large rectangular area filled with a fine grid of small squares, intended for writing notes. The grid is centered on the page and covers most of the available space.



Order via:

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info@zkw-otterbein.de

**Building materials dealer:**

Contact person: \_\_\_\_\_

Tel.: \_\_\_\_\_

Fax: \_\_\_\_\_

**Construction site:**

Contact person: \_\_\_\_\_

Tel.: \_\_\_\_\_

Fax: \_\_\_\_\_

 on-site delivery\*  with crane\*  self-collection\*

date, stamp / signature

\* Orders are processed on the basis of our general terms and conditions (status: 01.04.95) which we will gladly send you on request.

Art.-No.	Product / Description	Delivery	Items on pallet	Order volume
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**Natural Hydraulic Limes**

A2023009	Hydradur® – NHL 5	25 kg-bag	40	
A2022109	Calcidur® – NHL 3.5	25 kg-bag	40	
A2021009	Calcidur® – NHL 2	25 kg-bag	40	
A2026009	Trass Lime – FL B 2 (NHL B0, P20)	25 kg-bag	40	

**Air Hardening Limes**

A2031109	White lime I – White lime CL 80-Q (quädrime)	25 kg-bag	48	
A2010009	White lime hydrate I – White lime CL 80-S	25 kg-bag	27	
A6012009	White lime hydrate II – White lime CL 90-S	25 kg-bag	24	

**CALCEA® Lime Plaster System**

A4022109	Calcea® Lime base plaster	25 kg-bag	48	
A4022209	Calcea® Lime fine plaster	25 kg-bag	48	
A6052017	Calcea® Lime skimming plaster	25 kg-bag	43	
A3054409	Calcea® Lime spatterdashing mortar	25 kg-bag	48	
A4054002	Calcea® Lime thermal plaster (interior)	30 l-bag	40	
A4054102	Calcea® Lime thermal render (exterior)	30 l-bag	40	
A3074509	Calcea® Lime contact mortar	25 kg-bag	48	

**CALCEA® Lime Coating System**

A6091002	Calcea® Lime paint (white)	20 kg-bucket	24	
A6091010	Calcea® Lime paint (white)	5 kg-bucket	45	
A6091012	Calcea® Lime paint (tinted)	20 kg-bucket	24	
A6091011	Calcea® Lime paint (tinted)	5 kg-bucket	45	
A6091003	Calcea® Lime slurries (white)	20 kg-bucket	24	
A6091015	Calcea® Lime slurries (white)	5 kg-bucket	45	
A6091013	Calcea® Lime slurries (tinted)	20 kg-bucket	24	
A6091016	Calcea® Lime slurries (tinted)	5 kg-bucket	45	
A6091602	Calcea® Lime glaze (white)	15 kg-bucket	24	
A6091017	Calcea® Lime glaze (white)	5 kg-bucket	45	
A6091603	Calcea® Lime glaze (tinted)	15 kg-bucket	24	
A6091020	Calcea® Lime glaze (tinted)	5 kg-bucket	45	
A6091004	Calcea® Lime dispersion & priming paint (white)	20 kg-bucket	24	
A6091018	Calcea® Lime dispersion & priming paint (white)	5 kg-bucket	45	
A6091019	Calcea® Lime dispersion & priming paint (tinted)	20 kg-bucket	24	
A6191020	Calcea® Lime dispersion & priming paint (tinted)	5 kg-bucket	45	
A6091508	Calcea® Lime dispersion & priming slurries (white)	20 kg-bucket	24	
A6091510	Calcea® Lime dispersion & priming slurries (white)	5 kg-bucket	45	
A6091509	Calcea® Lime dispersion & priming slurries (tinted)	20 kg-bucket	24	
A6091511	Calcea® Lime dispersion & priming slurries (tinted)	5 kg-bucket	45	

Art.-No.	Product / Description	Delivery	Items on pallet	Order volume
<b>CALCEA® Lime Coating System</b>				
A6091005	Calcea® Lime full-tone paint (ochre)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (orange-ochre)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (oxide red)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (oxide brown)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (oxide black)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (umbra)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (light yellow)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (chrome oxide green)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (titanium white)	1 kg-tin	12	
A6091005	Calcea® Lime full-tone paint (cobalt blue)	1 kg-tin	12	
A6091108	Calcea® Lime filler – coarse – (white)	20 kg-bucket	24	
A6091021	Calcea® Lime filler – coarse – (white)	5 kg-bucket	45	
A6091022	Calcea® Lime filler – coarse – (tinted)	20 kg-bucket	24	
A6091023	Calcea® Lime filler – coarse – (tinted)	5 kg-bucket	45	
A6091208	Calcea® Lime filler – fine – (white)	20 kg-bucket	24	
A6091024	Calcea® Lime filler – fine – (white)	5 kg-bucket	45	
A6091025	Calcea® Lime filler – fine – (tinted)	20 kg-bucket	24	
A6091026	Calcea® Lime filler – fine – (tinted)	5 kg-bucket	45	
A6091408	Calcea® Lime filler – fibre-reinforced 0.2 – (white)	20 kg-bucket	24	
A6091027	Calcea® Lime filler – fibre-reinforced 0.2 – (white)	5 kg-bucket	45	
A6091028	Calcea® Lime filler – fibre-reinforced 0.2 – (tinted)	20 kg-bucket	24	
A6091029	Calcea® Lime filler – fibre-reinforced 0.2 – (tinted)	5 kg-bucket	45	
A6091308	Calcea® Lime filler – fibre-reinforced 0.6 – (white)	20 kg-bucket	24	
A6091030	Calcea® Lime filler – fibre-reinforced 0.6 – (white)	5 kg-bucket	45	
A6091031	Calcea® Lime filler – fibre-reinforced 0.6 – (tinted)	20 kg-bucket	24	
A6091032	Calcea® Lime filler – fibre-reinforced 0.6 – (tinted)	5 kg-bucket	45	
A6091608	Calcea® Lime gloss filler (white)	15 kg-bucket	24	
A6091033	Calcea® Lime gloss filler (white)	5 kg-bucket	45	
A6091034	Calcea® Lime gloss filler (tinted)	15 kg-bucket	24	
A6091035	Calcea® Lime gloss filler (tinted)	5 kg-bucket	45	

**CAREMA® Lime-clay plaster**

A4022309	Carema® Lime-clay base plaster	25 kg-bag	48	
A4022409	Carema® Lime-clay fine plaster	25 kg-bag	48	

**HISTOCAL® Traditional Lime Plasters, Renders and Mortars**

A4022509	Histocal® Traditional pure lime plaster CS I – (interior, coarse)	25 kg-bag	48	
A4022809	Histocal® Traditional pure lime plaster CS I – (interior, fine)	25 kg-bag	48	
A4052009	Histocal® Traditional pure lime render CS II – (exterior, coarse)	25 kg-bag	48	
A4053010	Histocal® Traditional pure lime render CS II – (exterior, fine)	25 kg-bag	48	
A3059610	Histocal® Lime-trass render	25 kg-bag	48	
A4030010	Histocal® Pore render (coarse)	25 kg-bag	40	
A4030110	Histocal® Pore render (fine)	25 kg-bag	40	
A3053109	Histocal® Traditional masonry and grouting mortar MG II (fine)	25 kg-bag	48	
A3053209	Histocal® Traditional masonry and grouting mortar MG II (coarse)	25 kg-bag	48	
A3053309	Histocal® Traditional masonry and grouting mortar MG IIa (fine)	25 kg-bag	48	
A3053509	Histocal® Traditional masonry and grouting mortar MG IIa (coarse)	25 kg-bag	48	
A3055210	Histocal® Injection mortar M 5	25 kg-bag	48	
A3055110	Histocal® Injection mortar M 2.5	25 kg-bag	48	
A3053709	Histocal® Anchor mortar	25 kg-bag	48	

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