THERMOPAL®-FS33

Fine mortar for THERMOPAL restoration plasters

Material number	Contents	Unit of quantity	Packaging	Colour
201422001	25	KG	Bag	creamy white

Areas of application

- For the production of fine plaster surfaces
- For layer thicknesses of 1 to 3 mm
- for interior and exterior use

Product features

- Cementitious pre-blended dry mortar
- creamy white

Advantages

- Vapour permeable
- Soon ready for rubbing down
- Low stress

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Technical Data

Material properties

Product components	1 component system
Base material	Pre-blended dry mortar
Consistency	Filler consistency
Grain size max	< 1 mm
Bulk density of fresh mortar	approx. 1.8 kg/dm³
Compressive strength (28 days)	approx. 4 N/mm²
Compressive strength (classification DIN EN 998-1)	CS II
Flexural strength (28 days)	approx. 1 N/mm²
Tensile adhesion strength (28 days)	≥ 0.08 N/mm²
Capillary water absorption	> 0.3 kg/m²
Water vapour diffusion coefficient μ	< 15
Water penetration	≤ 5 mm
Thermal conductivity λ (Lambda)	approx. 0.67 W/m * K
Durability	Resistant when applied in accordance with TM
Classification of the reaction to fire in accordance with DIN EN 13501-1	A1

Mixing

Mixing time	approx. 3 minutes
Water addition	approx. 6.5 l - 7 l

Application

Substrate/application temperature	approx. 5 - 30 °C
Pot life	approx. 60 minutes
Method of application, max. layer thickness per application step	
Consumption pro m² and mm layer thickness	approx. 1.4 kg/m²
Overcoat after (min.)	after 24 hours
Hardening process per 24 hours	min. 1 mm

Processing equipment

Aids/tools

- Stirrer (approx. 500-700 rpm)
- Suitable mixing paddle
- Trowel
- Flat trowel
- Sponge board

Manual processing

Can be trowelled off

Preparing the substrate

Requirement for substrate

1. Firm
2. Free of adhesion inhibiting substances
3. Grippy
4. Load-bearing

THERMOPAL®-FS33

Preparing the surface

1. Shrinkage processes in the restoration plaster must be largely completed.
2. Extremely absorbent and slightly sandy substrates must be primed with AQUAFIN-Primer.
3. The primer must be completely dry / must have reacted fully before the subsequent work steps are carried out.
4. No primer is required for applications on THERMOPAL-SR24 or THERMOPAL-ULTRA.

Application

Mixing

1. Pour THERMOPAL®-FS33 into a mixing bucket with clean water (Technical Data > water addition) and mix with a mixer until free from lumps.
2. The mixing time is ca. 3 minutes.

Surface levelling

1. Apply the levelling compounds in the required layer thickness.
2. The surface can be rubbed down using a Rubber squeegee, felt or sponge board after a corresponding waiting time.
3. Allow one day standing time per 1 mm of layer thickness.

Storage conditions

Storage

Store in a cool and dry place. Min. 12 months in the original canister. Promptly use opened container.

Disposal

Product residues can be disposed of in accordance with disposal code AVV 17 01 01.

Notes

- Protect surfaces that are not to be treated from the effects of THERMOPAL®-FS33!
- When carrying out plastering work, DIN18350 and DIN V 18550 must always be observed. The plaster surface should be free of cracks after complete drying. Hairline cracks/shrinkage cracks without hollow layers are, however, harmless and do not impair the technical properties.
- If water is extracted too quickly (heated rooms or highly absorbent substrates) or if plaster substrates are not sufficiently dry, there is a risk of cracking!
- Do not add water or new mortar to existing THERMOPAL®-FS33 mortar that has already set in order to make it workable again. (Risk of inadequate strength development)
- Very damp substrates may require longer waiting times before they can be rubbed off.
- Very high air humidity must be avoided by taking suitable measures, e.g. using condensation dryers, ventilating etc. However, direct heating or draughts should be avoided.
- Protect from strong solar radiation and draughts.
- Highly vapour permeable silicate paints must be used for the colour design.
- Rubbing prematurely or too intensively causes a binder concentration on the surface and can cause stress cracks.

Observe applicable safety data sheet!

GISCODE: ZP1

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Explanations

Conformity / Declaration / Verification

CE

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DIN EN 998-1-2010-12
THERMOPAL®-FS33
Refurbishment plaster mortar (R)

Compressive strength	CS II
Capillary water absorption 24 h, Prisma	≥ 0.3 kg/m²
Water penetration	≤ 5 mm
Coefficient of water vapour permeability(μ)	≤ 15
Tensile adhesion strength 28 d	≥ 0.08 N/mm²
Breaking pattern	B
Heat conductivity, λ10, dry, Tabulated mean value (P = 50 %), DIN EN 1745	< 0.67
Reaction to fire	A1
Durability (Frost resistance)	Resistant with application in accordance with technical data sheet