



Technical Data Sheet

THERMOPAL®-FS33

Art.-No. 2 01422

Fine finishing mortar for THERMOPAL restoration plasters

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|---|---|
| CE | |
| SCHOMBURG GmbH & Co. KG Aquafinstraße 2–8 D-32760 Detmold 13 2 01422 | |
| DIN EN 998-1:2010:12 THERMOPAL-FS33 Restoration Plaster (R) | |
| Compressive strength | CS II |
| Capillary water absorption 24h, prism | ≥ 0.3 kg/m ² |
| Water penetration | ≤ 5 mm |
| Water vapor permeability coefficient (μ) | ≤ 1.5 |
| Tensile strength 28 d | ≥ 0.08 N/mm ² |
| Fracture appearance | B |
| Thermal conductivity λ10, dry, Tabulated average value (P=50%), DIN EN 1745 | < 0.67 |
| Reaction to fire | A1 |
| Durability (Frost resistance) | Resistant in case of handling according to the technical data sheet |

Properties:

- Mineral-based fine finishing mortar
- Vapour permeable
- Low stress cure
- For interior and exterior use
- For thicknesses from 1 to 3 mm

Areas of application:

THERMOPAL-FS33 is used for producing a fine surface finish. It is suitable onto coarser structured mineral-based plasters and as a fine smoothing mortar (mortar group PII b) for interior and exterior use. It is used to achieve smooth surfaces with the restoration plasters THERMOPAL-SR44, THERMOPAL-SR24 and THERMOPAL-ULTRA.

Technical Data:

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| Colour: | cream-white |
| Basis: | cement/lime, aggregates |
| Application/ substrate temp: | +5° C to +30° C |
| Pot life*): | approx. 60 mins |
| Water demand: | approx. 6.5 – 7.0 litres per 25 kg |
| Bulk density (fresh mortar): | approx. 1.8 kg/l |
| Consumption: | approx. 1.4 kg/m ² /mm thickness |

Flexural and compressive strengths: approx. 1.0 / 4.0 N/mm² after 28 days*)

Coefficient of water absorption: 0.11 kg/(m²×h^{0.5})

Resistance to water vapour transmission, μ: approx. 10
 Packaging: 25 kg bags
 Storage: dry, 12 months in the original unopened packaging. Use opened packaging promptly.

*) These values relate to +23° C and 50% relative humidity

Substrate preparation:

The mineral-based substrate must be load-bearing, sound, have a good key and be free from adhesion inhibiting substances. Shrinkage processes must be largely at an end. Remove loose edges back to a sound base. Pre-treat very porous substrates by priming with ASO-Unigrund diluted 1:4 with water. Priming is not necessary on the WTA restoration plasters THERMOPAL-SR44, THERMOPAL-SR24 or THERMOPAL-ULTRA.

Product preparation:

Pour 6.5 – 7.0 l clean water into a clean mixing bucket with 25 kg powder and stir until a lump-free, non-slump, smooth mortar is achieved (approx. 300 – 700 rpm). The mixing time is approx. 2 – 3 minutes. Application is by trowel, lath or float to the required thickness. Once dried, the surface can be rubbed up with an expanded rubber float, felt board or sponge board. Rubbing up too early or too vigorously encourages binder concentration at the surface and can cause stress cracks. Leave one day standing time per 1 mm thickness.

Advice:

- Protect areas where THERMOPAL-FS33 is not being applied from its effects.
- Do not attempt to re-life THERMOPAL-FS33 that has already started to stiffen by adding water or fresh mortar, there is a risk of inadequate strength development.

THERMOPAL®-FS33

- Very damp substrates may possibly cause longer waiting times before the surface can be worked.
- Very high humidity is to be avoided by suitable means such as e.g. through the use of condenser-driers, ventilation etc. However, avoid direct heat sources or draughts.
- To achieve coloured designs always use a highly vapour permeable silicate paint.
- If water is lost too quickly (heated rooms or very porous substrates) or plaster sub-bases are inadequately dry then there is a risk of crack formation.
- Strictly follow DIN 18350 and DIN V 18550 when carrying out plastering work. Once completely dry, the plaster surface should be free from cracks. Hairline cracks/shrinkage cracks without hollow areas beneath are of no concern and not a cause for complaint as they do not affect the technical properties.

Please observe a valid EU Health & Safety data sheet.

GISCODE: ZP 1