THERMOPAL®-ULTRA-white

WTA rapid-setting restoration plaster



Material number	Package type	Colour	Units / pallet	Pc/package
201492001	25 kg, bag	White	42	1

Areas of application

- For restoring living spaces
- for private areas
- For high quality utility areas
- for directly usable surfaces
- in case of a high salt load in the masonry work
- in the event of moisture damage caused by condensation
- for building sites under time pressure
- for base surfaces
- for interior and exterior use

Product features

- Restoration plaster mortar (R) after DIN EN 998-1
- WTA-certified
- Rapid, reactive binding even with critical site conditions
- Application up to 30-mm layer thickness in one application step
- High volume of entrained air

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Advantages

- White restoration plaster surface
- Extremely low shrinkage
- Rapid build-up of hydrophobicity
- Climate-regulating
- Low consumption per surface area
- Already ready for abrading after ca. 90 minutes
- Sulphate resistant

Technical Data

Material properties

Base material	Pre-blended dry mortar
Consistency	Filler consistency
Grain size max	< 2 mm
Bulk density of fresh mortar	approx. 1.26 kg/dm³
Compressive strength (classification DIN EN 998-1)	CS II
Tensile adhesion strength (28 days)	≥ 0.08 N/mm²
Capillary water absorption EN 998-1	> 0.3 kg/m²
Water vapour diffusion coefficient μ	< 12
Water penetration	≤ 1.05 mm
Thermal conductivity λ (Lambda)	approx. 0.27 W/m * K
Durability (frost resistance)	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	From 7.0 l to 7.5 l per 25 kg
Yield, litre	approx. 25.8 l per 25 kg

Application

Substrate/application temperature	approx. 5 - 30 °C
Pot life	approx. 45 minutes
Method of application, max. layer thickness per application step	up to 30 mm
Consumption pro m² and cm layer thickness	approx. 9 kg/m²
Hardening process per 24 hours	min. 1 mm

Processing equipment

Aids/tools

- Stirrer (approx. 500-700 rpm)
- Suitable mixing paddle
- Trowel
- Flat trowel
- Plasterer's darby
- Grid float

Manual processing

- Can be smoothed with a smoothing tool
- Can be trowelled off

Machine application

THERMOPAL®-ULTRA-white can be mechanically applied. For precise information, see the additional Technical Information No. 43.

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Preparing the substrate

Requirement for substrate

1. Free of adhesion inhibiting substances
2. Pore open
3. Load-bearing

Preparing the surface

1. Remove old, damaged plasters, paints or coatings from the substrate up to 80 cm above the visible damaged area or the area delimited through inspections. The substrate must be prepared so that it is load-bearing.
2. Pre-treat it with ESCO-FLUAT in case of salt contamination. Apply a semi-covering splatterdash coat of THERMOPAL-SP as a bond coat (degree of coverage approx. 50%). In conjunction with mineral waterproofing slurries, apply the adhesive splatterdash coat over the entire surface with 100% coverage.

Application

Measures depending on the degree of salting after WTA

Degree of salting [1]	Measures	Layer thickness (cm)	Comments
Low	1. THERMOPAL-SP 2. THERMOPAL-ULTRA-white	≤ 0.5 ≥ 2.0	
Medium to	1. THERMOPAL-SP 2. THERMOPAL-ULTRA-white 3. THERMOPAL-ULTRA-white	≤ 0.5 1.0– 2.0	Overall thickness: min. 2.5 cm; max. 4 cm roughen previous layers well
	1. THERMOPAL-SP 2. THERMOPAL-GP11 3. THERMOPAL-ULTRA-white	≤ 0.5 ≥ 1.0 ≥ 1.5	Drying times of the individual layers: 1 mm/day

[1] Identify and evaluate through preliminary inspections.

Mixing

1. Pour the required quantity of water into a clean mixing bucket.
2. Completely add the powder and mix until homogeneous and free from lumps.
3. The mixing time is ca. 3 minutes.
4. After a short activation time, stir again.

Application

1. THERMOPAL®-ULTRA-white can be applied on the surface in a single application step with a layer thickness up to 30 mm.
2. For thicker layers, render in several layers.
3. In this case, strike off the previous layer with a plasterer's darby, and immediately after stiffening, roughen up horizontally and allow to dry.
4. Striking off is done with a suitable tool (float, trowel or plasterer's darby), depending on the application, within the pot life.
5. After sufficient standing time, the surface may be felt boarded matt damp or rubbed down.
6. Alternatively, the surface can also be treated with a grid float. Grid floating is performed depending on the ambient conditions.
7. If necessary, the plaster surface can be overcoated after one day with THERMOPAL® FS33 fine mortar.

Storage conditions

Storage

Store in a cool and dry place. Min. 9 months in the original canister. Promptly use opened container.

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Notes

- Protect surfaces that are not to be treated from the effects of THERMOPAL®-ULTRA-white!
- Very damp substrates may require longer waiting times before they can be rubbed off.
- With low strength substrates, a corrosion-resistant plaster base must be attached mechanically to the substrate prior to plastering. (Cannot be used with internal waterproofing).
- With difficult site conditions (e.g. inhomogeneous masonry work, waterproofed masonry work, use in exterior area under changing weather conditions and thick-layer plaster build-ups, etc.), an alkali-resistant glass scrim with a mesh size of 7 × 7 mm or 10 × 10 mm can be used to increase the cracking resistance. The inlay of the plastering fabric is applied in the upper third of the plaster layer.
- Rubbing prematurely or too intensively causes a binder concentration on the surface and can cause stress cracks.
- Observe the WTA "Restoration plaster systems" data sheet for planning and implementing of restoration measures.
- Protect from strong solar radiation and draughts.
- Highly vapour permeable dispersion silicate paints must be used for the colour design.

Observe applicable safety data sheet!

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