



THERMOMAX® UNIVERSAL 30

Coarse Grooved-Texture Decorative Render

Product Description

THERMOMAX® UNIVERSAL 30 is a cement-based, polymer-modified mineral decorative render. It is applied as the finish coat in external thermal insulation composite systems (ETICS); it produces a decorative grooved texture of directional grooves with a 3.0 mm grain size, protects the system against external influences and gives the façade a natural appearance.

It is a component of external thermal insulation composite systems (ETICS). System performance is assessed under EAD 040083-00-0404 (ETAG 004). Product performance has been determined in accordance with test methods EN 1015-11, EN 13497, EN 1062-3 and EN 1015-19.

Fields of Application

- As the decorative finish coat in external thermal insulation composite systems (ETICS)
- Over EPS, XPS and mineral wool boards rendered with THERMOMAX® PLAST 65
- On well-finished base render, thin render, concrete and aerated concrete surfaces
- For renovating sound surfaces previously painted with silicate or acrylic paints
- For interior and exterior use on vertical surfaces

Advantages

- Its cement-based composition gives high water vapour permeability, preventing moisture build-up in thermal insulation systems
- Weather-resistant and water-repellent
- The uniform grain distribution produces an even, repeatable grooved texture across the façade
- Conceals minor surface defects
- Provides high adhesion to the substrate; does not crack or flake
- Easy to apply and to texture
- Can be painted in any colour
- Non-combustible material

Technical Properties

General Information	
Material composition	Cement, mineral fillers and polymer additives
Appearance	Beige powder
Maximum aggregate size	3.0 mm
Texture	Grooved texture
Performance Data	
Compressive strength (EN 1015-11)	$\geq 3.0 \text{ N/mm}^2$
Flexural strength (EN 1015-11)	$\geq 1.5 \text{ N/mm}^2$
Impact resistance (EN 13497)	$\geq 3 \text{ joules (system value)}$

Capillary water absorption (EN 1062-3)	$\leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 25$
Application Data	
Mixing ratio	5.00 – 5.75 litres of water / 25 kg powder (~ 0.20 – 0.23 litres of water / 1 kg powder)
Pot life	~ 2 hours
Texturing time	10 – 20 minutes
Application thickness	Equal to the grain size (~ 3.0 mm)
Waiting time before painting	Minimum 3 days
Application and substrate temperature	+5°C / +30°C
Service temperature	-20°C / +80°C
Consumption	3.5 – 4.0 kg/m ²
Safety Information	
Reaction to fire class (EN 13501-1)	A1
Hazardous substances	Refer to SDS

The technical values stated were obtained at an ambient temperature of +23°C and 50% relative humidity. Higher temperatures shorten the stated times, lower temperatures extend them.

Application Instructions

Surface Preparation

The substrate must be sound, load-bearing, dry, clean and free of dust. In thermal insulation systems, wait at least 7 days after applying THERMOMAX® PLAST 65. The substrate must be cleaned of oil, paint, rust and paraffin residues that could impair adhesion. Cracks and voids must be repaired with a suitable TAMCRETE® repair mortar at least two days in advance. Before application the surface must be primed with a suitable render primer; the primer equalises substrate absorbency and prevents differences in colour tone.

Preparation of the Mix

Pour the amount of water given in the technical table into a clean container. Add THERMOMAX® UNIVERSAL 30 slowly to the water and mix with a mixer at 400 – 600 rpm until free of lumps. Let the mix rest for 3 – 5 minutes, then mix again for 1 minute before use. Use the same amount of water for every batch; otherwise differences in texture and colour tone will appear on the surface. Once the pot life has elapsed or the mix has begun to set, it must not be reused by adding water.

Application

Spread the mix evenly over the surface with a steel trowel and scrape off the excess, leaving a layer as thick as the largest grain, approximately 3.0 mm. The layer must not be thicker than the grain size; otherwise the grains stay embedded in the material and no grooves are formed. Depending on weather conditions, texture the surface within 10 – 20 minutes using a plastic or polyurethane float in directional strokes (up-and-down or side-to-side); always draw the float in the same direction and do not change direction on the same façade. Clean the float frequently while texturing. On large areas, provide enough applicators to avoid visible joins, and apply the material without interruption up to joints, corners and detail edges. Façades too large to be finished in one pass must be divided by architectural lines or decorative groove profiles. If the ambient or surface temperature exceeds +25°C after application, dampen the surface at intervals with water at low pressure to prevent rapid water loss. To improve resistance to soiling and even out colour tone, paint the surface with two coats of a suitable façade paint once it has dried. Do not apply on horizontal surfaces or on slopes of less than 45°. Do not apply in direct sunlight, on sun-heated surfaces, in strong wind, fog or rain, or where there is a risk of frost within 24 hours. Use product from the

same production batch on any one façade; because of its natural mineral content, slight colour differences may occur between batches.

Cleaning of Tools

Tools and equipment must be cleaned with water immediately after use. Once hardened, the product can only be removed mechanically.

Storage Conditions and Shelf Life

Store in the original, unopened packaging on a wooden pallet, in a dry, cool place protected from frost. When stored correctly, the shelf life is 12 months from the date of production.

Safety Precautions

Suitable work clothing, protective gloves, goggles and a mask must be worn during application. The uncured material irritates the skin and may cause serious eye damage; avoid contact with skin and eyes, rinse with plenty of water in case of contact, and seek medical attention immediately after eye contact or if swallowed. Food products must not be left in areas where the material is being applied. Store out of reach of children. For further information, refer to the Safety Data Sheet.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For further technical information, please refer to the product catalogue or contact our representatives.

Packaging

25 kg kraft bag

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