

smet

Sopro MDM 888

Medium-/thick-bed tile adhesive



Flexible, rapid-set, polymer-modified, trass-bearing, cementitious medium- and thick-bed tile adhesive for up to 30 mm bed thicknesses, indoors and outdoors. Particularly suitable for laying large-format tiles and discoloration-resistant natural stone coverings using medium- or thick-bed method. Contains Rhenish trass to reduce risk of discoloration and efflorescence. Rapid-setting properties of Sopro MDM 888 also reduce risks posed by dishing/curling-prone covering materials. Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- Coat thickness: 5–30 mm
- Flexible
- Excellent setting properties thanks to crystalline water binding
- Working life: approx. 30 minutes
- Walkable: after approx. 3 hours
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1^{PLUS} R ("very-low-emission-plus") rating
- DGNB (German Sustainable Building Council): Top quality level 4, Line 8²⁾
- For indoor and outdoor use

Use

Polymer-modified, cementitious medium- and thick-bed tile adhesive for up to 30 mm coat thicknesses. Sopro MDM 888 is particularly suitable for laying large-format ceramic tiles, fully vitrified stoneware and suitable discoloration-resistant natural stone coverings using medium- and thick-bed method on dimensionally stable (e.g. cement or calcium sulphate screeds) and substrates with limited deformation, e.g. heated screeds, (min. 3-month-old) in-situ concrete. High crystalline water binding capacity of Sopro MDM 888 reduces discoloration of natural stonework by mortar.

Suitable substrates

Concrete, min. 3 months old; cement screeds; calcium sulphate screeds; mastic asphalt screeds (indoors); board subfloors; heated floor constructions (cement and calcium sulphate screeds); strong existing ceramic, natural stone, terrazzo and cast stone coverings.

Mixing ratio

6.0–6.5 ltr water : 25 kg Sopro MDM 888

Maturing time

3–5 minutes

Working life

Approx. 30 minutes; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability

Walkable/groutable

After approx. 3 hours or after setting of adhesive; take measures to spread loads over floor

Loadable

After approx. 1 day; in commercial facilities after approx. 3 days; in areas subject to high wet exposure after approx. 3 days; in conjunction with floor heating after approx. 21 days

Application temperature

Between +5 °C and max. +25 °C

Coverage

Approx. 1.4 kg/m² per mm coat thickness

Shelf life

Approx. 6 months, subject to storage on pallet in dry conditions in original unopened containers

Packaging

25 kg bag

¹⁾ See TKB (German Technical Committee for Construction Adhesives) data sheet 14 "Rapid-hardening cementitious screeds and cementitious screeds with screed admixtures" issued on 11 August 2015 by Industrieverband Klebstoffe e.V. (German Adhesives Industry Association).

²⁾ Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).

Properties

Excellent contact adhesion, early sag resistance and high water retentivity, resistant to water and freeze-thaw cycles, high early strength. Trass content significantly reduces risk of efflorescence with terracotta and natural stone coverings. Particularly suitable for laying large-format natural stone tiles with high thickness tolerances.

Suitable for reprofiling damaged cementitious substrates in up to 30 mm coat thicknesses prior to laying tiles or natural stone coverings.

Substrate preparation

Substrate shall be clean, solid, strong, dimensionally stable and free from any adhesion-improving substances. Fill any existing cracks in screed with structurally bonding Sopro GH 564 casting resin. Cement screeds shall be 28 days old and dry. Screeds incorporating Sopro Rapidur® B1 binder are ready to receive tiles after only approx. 12 hours. Calcium sulphate screeds shall exhibit a moisture content $\leq 0.5\%$ CM and be adequately ground, vacuum-cleaned and primed. Mastic asphalt screeds shall be blinded with sand. Cement and calcium sulphate screeds incorporating heating elements shall be heated up to ensure adequate drying out prior to flooring installation: required moisture content for cement screeds $\leq 2.0\%$ CM, for calcium sulphate screeds $\leq 0.3\%$ CM.

All relevant standards, guidelines and recommendations shall apply; workmanship shall comply with good practice.

Priming

Sopro GD 749 primer: Concrete, cement screeds, board subfloors, high- or variable-suction (interior) aerated concrete

Sopro HPS 673 bonding primer: Smooth and closed-pore substrates, e.g. existing tile, terrazzo, natural and cast stone coverings, adhesive residue from PVC flooring or carpeting

Sopro MGR 637 multi-purpose primer/Sopro EPG 522 epoxy primer: Calcium sulphate (anhydrite and self-levelling anhydrite) screeds

Application

Fill clean container with 6.0–6.5 ltr water, add 25 kg (1 bag) Sopro MDM 888 and mix thoroughly to workable, lump-free consistency. After 3–5 minutes maturing time, remix thoroughly. First apply thin coat of MDM 888 as contact layer using finishing trowel, then apply adhesive and comb using medium-bed trowel (use medium-bed trowel adaptor for larger bed thicknesses). Prior to placing tiles, apply thin, full-cover adhesive coat to rear tile face, which shall be clean and free from dust and release agent. Push into prepared combed bed and tap to align. Apply only as much adhesive as can be covered by tiles during open time.

Rake out joints prior to hardening and wash down covering. Sopro MDM 888 may also be readily applied with conventional laying methods (using stringline) and offers high sag resistance, even with large bed thicknesses and heavy tiles.

Specified times

Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

Tools/tool cleaning

Mixing attachment, finishing trowel, medium-bed trowel, medium-bed trowel adaptor; wash tools with water immediately after use.

Licence

EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1^{PLUS} R ("very-low-emission-plus") rating

Safety precautions

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)
GHS07

Signal word: Caution

Contains Portland cement. Exhibits strong alkaline reaction upon contact with moisture/water; protection required for skin and eyes. All standard precautions for the handling of construction materials/chemicals shall be taken.

Hazard statements: H319 Causes serious eye irritation.

Precautionary statements: P102 Keep out of reach of children. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P332+P313 If skin irritation occurs: Get medical advice/attention.

German Water Hazard Class (WGK): WGK 1: slightly hazardous to water (self-assessment in accordance with VwVwS – German Administrative Regulations on the Classification of Substances Hazardous to Waters into Water Hazard Classes – of 17.05.1999)

GISCODE (German hazardous substances classification): ZP 1 · Low-chromate to Regulation (EC) No 1907/2006, Annex XVII

Disposal

Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of hardened product (EC waste code) : 17 01 01

Disposal of not hardened product (EC waste code) : 17 01 01

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

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