

Sopro MGR 637 - Multi Purpose Primer

Sopro MGR 637 is an extra low emission, quick drying, ready to use, one-component polyurethane resin primer. It is water and solvent-free, easily workable due to its low viscosity and achieves extremely high penetration. Particularly suitable for pretreatment of calcium sulphate based screeds when laying large format fully vitrified stoneware units. Suitable for use in conjunction with floor heating.

- For calcium sulphate based screeds when laying large format fully vitrified stoneware units.
- Extra quick drying.
- One-component, water and solvent free.
- For all absorbent and non-absorbent substrates.
- 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 8¹⁾
- For indoor and outdoor use.

Suitable Substrates

Sopro MGR 637 is used in undiluted form, blinded with 0.4 – 0.8 mm Sopro QS 511 coarse silica sand, as a primer for mineral and moisture sensitive substrates, e. g. concrete, cement or magnesium oxychloride (magnesite) screeds. It is particularly suitable for calcium sulphate based screeds. Also for use on timber floorboards, particleboard, oriented strand board (OSB) and hardboard.

Substrate Preparation

Substrate should be uniformly dry, level, crack-free and of adequate compressive and tensile strength. It must be free from dust, lacquer/varnish, wax, oil, rust, gypsum residue and any other adhesion-impairing substances. Residual moisture should meet requirements of current edition of relevant standards, regulations, guidelines and good practice. Any potential risks posed by rising damp should also be eliminated. Unbonded screeds and substrates in contact with ground should be provided by others with a standards-compliant damp-proof membrane to protect against rising damp. Please contact SMET Technical for advice on any other special substrates. **NOTE:** Sopro MGR 637 should **not** be diluted with water or solvents.

Application

Thoroughly shake ready-to-use primer and apply in single coat using suitable tool (e.g. Sopro shortpile roller) and then immediately blind to excess with Sopro QS 511 coarse silica sand (0.4 – 0.8 mm). Apply full-cover coat of Sopro MGR 637 sparingly (max. 175 g/m² per coat), taking care to avoid ponding. Long-pile paint rollers are

unsuitable for application. Completely remove surplus or only partially embedded silica sand after setting. For high-suction substrates, it may be necessary to apply two successive coats of Sopro MGR 637. In such cases, apply second coat immediately after first coat has dried and then blind to excess with sand as described above. Subsequent works to substrates primed with Sopro MGR 637 may, depending on temperature, be performed 30 – 40 minutes after application of final coat. Proper removal of surplus silica sand by suitable means (sweeping down, vacuuming etc.) is essential prior to commencement of subsequent works. Note: As an alternative to blinding with sand, a coat of Sopro HPS 673 bonding primer may be applied after first coat of Sopro MGR 637 has dried. Subsequent works can then proceed when Sopro HPS 673 has dried (after 1 – 2 hours).

Calcium Sulphate Floor Screed Anhydrite & Alpha Hemihydrate

Moisture Content – The screed must be dry. Unlike cement based materials which can remain strong even when wet, calcium sulphate based materials gain strength by a process of crystallization and must be fully dry before covering. Moisture content can be checked with a calcium carbide moisture meter or Gann Hydromette CM meter, a reading of ≤ 0.5 % moisture indicates the screed is dry, however ≤ 0.3 % should be achieved when underfloor heating is present. When checked by using a hair hygrometer, a reading of ≤ 75% after 48 hours indicates the screed is dry. **Please contact the SMET technical team for advice.**

Restrictions

Optimum application temperature range is between +15 °C and +25 °C. Higher temperatures accelerate and lower temperatures retard setting of primer. Note: This primer is for professional applicators only!

Licence

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

Storage

Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers; store in cool, frost-free conditions (> +5°C).

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Disposal Considerations

Waste treatment methods: Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. 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 not hardened product (EC waste code) : 08 05 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.

Safety

All standard precautions for the handling of construction materials/chemicals must be taken. See Sopro Health & Safety Datasheet for more detailed information. Labelling in accordance with Regulation (EC) No 1272/2008 (CLP): **GHS07, GHS08. Signal word:** Danger. **Hazard-determining components:** Reaction mass of 4,4'-methylenedi(phenyl isocyanate) and o-(p-isocyanatobenzyl)phenyl isocyanate; poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 1,1'-methylenebis(isocyanatobenzene); benzene, 1,1'-methylenebis(isocyanato-polymer) with 1,2-ethane diamine, methyloxirane and oxirane; diphenylmethane diisocyanate, isomers and homologues.

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

EUH Statements

Supplemental hazard information: EUH 204 Contains isocyanates. May produce an allergic reactions.

Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P308+P313 If exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

German Water Hazard Class (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): **RU 1** · Solvent-free to TRGS (German Technical Regulations for Hazardous Substances) 610.

Technical Information

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|---------------------------|---|
| Application temperature | From +5 °C to max. +35 °C (substrate, air, material) |
| Walkable | After 30 – 40 minutes |
| Ready to receive covering | After 30 – 40 minutes |
| Specified times | Apply for normal temperature range of +23 °C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times |
| Coverage | Approx. 175 g/m ² per priming coat; 175 – 350 g/m ² (1 – 2 coats, depending on substrate suction); avoid ponding |
| Tools | Short-pile or foam paint roller (e.g. Sopro short-pile roller) |
| Tool cleaning | While still fresh, Sopro MGR 637 can be removed from clothing and tools using thinner/spirit. Once set, material requires mechanical removal. |
| Packaging | Metal canister 10 kg |

¹⁾Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).

Sopro



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