

Sopro RS 648 Vibration Slurry

One-component, fibre-reinforced, polymer-modified, trass-bearing, cementitious bonding and contact slurry. Applied as flexible bonding slurry for installation of stone and ceramic coverings using vibrated floor system or conventional methods. Ideal for slurry application technique. Sopro RS 648 is particularly suitable for laying tiles with low water absorption (fully vitrified stoneware). For laying large-format units (30 cm×60 cm) using vibrated floor system. Also used as slurry-applied bonding layer on substrate and on bedding adhesive. Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- Strong bond where suitable tiles are installed using vibrated floor system
- For vibratable large-format tiles
- For rectified fully vitrified stoneware
- For floors, indoors and outdoors

Suitable Substrate

Site-mixed cement screeds or ready-mixed cement screeds supplied by concrete plant, of grade CT-C25-F4 or of higher grade where needed for building use and specified by designer. In accordance with system, tiles are laid with Sopro RS 648 on fresh, compacted and smooth-trowelled screed, which serves as bedding adhesive. Depending on contract size and temperature, it may be necessary to use set-retarding admixture for placing screed. Sopro EVZ 634 screed retarder, as system product, is ideal for this purpose ((contact SMET technical team for dosage guide).

Application

Slurry application technique: Mix Sopro RS 648 with 9.25 – 9.75 ltr water per 15 kg powder to produce creamy slurry. Apply slurry to fresh, compacted and smooth-trowelled bedding adhesive (screed) and comb with 6 mm notched trowel. Then proceed to embed and align tiles.

Powder application technique: Uniformly sprinkle Sopro RS 648 in adequate thickness onto fresh, compacted and smooth-trowelled bedding adhesive (screed). Proceed by wetting powder with water (using watering can). Comb dampened powder with 16 mm notched trowel before embedding and aligning tiles. Then vibrate entire tile covering with surface vibrator to compact. Waiting time between tile laying and vibration shall not exceed approx. 1 hour (at +20 °C). Higher temperatures shorten maximum waiting times. Use of set-retarding admixture is recommended for placing bedding adhesive (screed). Sopro EVZ 634 screed retarder is ideal for this purpose (contact SMET technical team for dosage guide).

* **Note on powder application technique:** Powder application technique involves sprinkling of Sopro RS 648 in dry powder form onto compacted screed. This procedure calls for a high degree of manual skill and experience. Compliance with required square-metre powder application needs constant checking throughout operations. As a final check: with powder application technique, a 15 kg bag of Sopro RS 648 should suffice for approx. 5 m². When wetting (pouring water onto) sprinkled powder, ensure that neither too much nor too little water is applied so that resulting contact layer is neither excessively wet nor excessively dry. Too much or too little water may have a negative impact on later tensile adhesion strength (inadequate bond). Hence, this technique is of only limited suitability and cannot be recommended for fully vitrified stoneware.

Storage

Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers.

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Disposal Considerations

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 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.

Safety

Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP). All standard precautions for the handling of construction materials/chemical must be taken. Contains cement. Exhibits strong alkaline reaction upon contact with moisture/water. **Labelling:** Hazard symbol: **Xi** Irritant, hazard-determining components: Portland cement. **GISCODE (German hazardous substances classification): ZP1.** Low-chromate to Regulation (EC) No 1907/2006, Annex XVII). See Sopro Health and Safety Data Sheet for further detailed information.

Hazard Statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary Statements:

P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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
P102 Keep out of reach of children.
P332+P313 If skin irritation occurs: Get medical advice/attention.

Technical Information

Mixing Ratio	9.25 – 9.75 ltr water : 15 kg Sopro RS 648 (slurry application)
Maturing Time	3 - 5 minutes
Application temperature	Between +5 °C and +30 °C
Pot Life	30 - 40 minutes
Coverage	1.5 – 2.0 kg/m ² for slurry application, using notched trowel with 6 mm serration, or 0.8 – 0.9 kg/m ² for 1 mm coat thickness; approx. 3.0 kg/m ² for powder application* (*please observe note on powder application technique overleaf).
Specified Times	Apply for normal temperature range of +23 °C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.
Tools and Cleaning	Mixing attachment, notched trowel with 6 mm serration; wash tools with water immediately after use.
Packaging	15 kg bags

