

Topper 12

Description

Topper 12 is a high viscosity, 1-component water-based pore filler. Based on high grade acrylic resin it is used to seal Quartzline marble and stone carpet floor systems.

After drying, Topper 12 will form a hard but elastic, transparent and glossy film.

Properties

Good adhesion	
High clarity film	
Thixotropic	
VOC-free	
UV resistant	
Fast drying, good curing	
Low odour	
Easy to apply	
Easy to clean and maintain	
Density ¹ (g/cm ³)	1,04
Viscosity ² (Pa.s)	Ca 675 -775
Solid content	Ca 45 %

¹ = EN 12190, 14 days/ + 23°C / 50% R.H

² = Brookfield DV-1, Spindle 4, 0,3 RPM, @ 23°C

Form

Thixotropic white paste, clear and transparent after drying.

Packaging

10 kg bucket.

Shelf life / Storage

Up to 12 months after the production date if kept in the original, sealed, unopened and undamaged packaging and stored dry between +5°C and +30°C.

Mixing

Topper 12 is ready to use and can be applied directly from the bucket.

Be careful when agitating the material as this is normally not necessary. Should it be necessary, stir calmly and avoid air inclusion.

Curing is strongly dependent on ambient temperature and relative air humidity.

Pay attention to the batch numbers, make sure to use matching batch numbers for every project.

System

Primer: It is not necessary to seal the substrate for a resin bonded stone carpet or marble floor onto a sand cement subfloor, dust binding will be sufficient. For this purpose, Quartzline Primer Universal is the recommended primer.

Mixing ratio and consumption of Quartzline Primer Universal under Quartzline Stone or Marble Carpet flooring systems

Substrate	Ratio primer / water	Consumption	Broadcast Approx. 200
Sand cement	1:3	200 g/m ²	×
Concrete	1:3	150 g/m ²	×
Anhydrite	1:3	150 g/m ²	×
Wood	Undiluted	150 g/m ²	✓
Linoleum	1:1	150 g/m ²	×
PVC	1:1	150 g/m ²	✓
Tiles	Undiluted	150 g/m ²	✓
Natural stone	Undiluted	150 g/m ²	✓
Steel	Undiluted	150 g/m ²	✓
Cement bonded levelling	1:1	250 g/m ²	×

Quartzline Primer BHH and Quartzline Primer GW may also be use beneath a Quartzline Stone Carpet or Quartzline Marble Carpet

Quartzline Primer GW is used on sealed and non to low absorbent substrates. Primer GW is preferably sprinkled with Quartzline 0,25 – 0,4 mm kiln dried sand.

Wearing course: The following Quartz-Line floor systems can be used:

- Quartzline Stone Carpet
- Quartzline Marble Carpet

Sealer: **Quartzline TOPPER 12 → CLOSELY LEVELLED (WITH SQUEEGEE)**

Very poor, uneven substrates can be filled with Quartzline Mortar D. It is also possible, however, to level the substrate with the Quartzline Cementitious SL UNDERLAYMENT or Cementitious SL CONSTRUCTIVE. Before application of the mortar, the cementitious systems should be sanded and primed with Primer Universal.

The Quartzline Topper 12 is part of the following systems:



Marble

- Quartzline Marble Indoor



Stone

- Quartzline Stone Indoor

Consumption

Stone carpet system	Product	Consumption
Primer	1x Quartzline Primer BHH	100 - 150 g/m ²
	1x Quartzline Primer GW	100 - 150 g/m ² .
	1x Quartzline Primer GW	200 - 250 g/m ² .
Wearing course approx. 6 mm	Stone Carpet 1-2 mm	10 - 11 kg/m ²
Wearing course approx. 6-8 mm	Stone Carpet 2-3 mm	11 - 12 kg/m ²
Wearing course approx. 8 mm	Stone Carpet 3-4 mm	12 - 13 kg/m ²
Wearing course approx. 6-8 mm	Marble Carpet 1-4 mm	11 - 12 kg/m ²
Wearing course approx. 10 mm	Marble Carpet 4-8 mm	17 - 18 kg/m ²
Wearing course approx. 12.5 mm	Marble Carpet 5-12 mm	20 - 21 kg/m ²

Sealer	Topper 12 on 1-2 mm Stone Carpet	500 - 600 g/m²
	Topper 12 on 2-3 mm Stone Carpet	700 - 800 g/m²
	Topper 12 on 3-4 mm Stone Carpet	800 - 900 g/m²
	Topper 12 on 1-4 mm Marble Carpet	700 - 800 g/m²
	Topper 12 on 4-8 mm Marble Carpet	1,0- 1,1 kg/m²
	Topper 12 on 5-12 mm Marble Carpet	Do not use
Topcoat (optional)	Quartzline PU-125	100 - 125 g/m ²

Substrate preparation

The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm²), with a minimum pull-off strength of 1,5 N/mm².

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, previous coatings and surface treatments.

If the surface is older than 48 hours, always perform a preliminary adhesion test.

Application conditions

For the best result, the substrate and ambient temperature should be between 15°C and 20°C.

Low temperatures and high air humidity lengthen the potlife.

High temperatures and low air humidity shorten the potlife.

Both may have an adverse effect on the aesthetic appearance of the floor.

Substrate temperature: Minimum 10°C, maximum +30 °C

Ambient temperature: Minimum 10°C, maximum +30 °C

Relative air humidity: Maximum 70% R.H.

During hardening, humidity must not exceed 70% of the maximum RH and care must be taken to ensure that sufficient ventilation and fresh air can remove the excess moisture. If the air is saturated, the film **CANNOT** dry.

Dew point: Beware of condensation!

The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or efflorescence on the floor finish.

Application

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Touch-dry @ 20°C	8 hours
Can be lightly loaded @ 20°C	24 hours
Fully cured @ 20°C	7 days

Check the moisture content of the substrate, the R.H. and dew point before applying.

This one component water-based acrylic has been specially developed as a sealer for the Quartzline stone and marble carpets.

Apply with a squeegee, spread well in both directions, then **level off closely** to avoid application marks. Make sure to cover the complete floor area **twice** using a left to right and back application motion. Ensure that the material is applied well into the pores, and does not remain as a thick layer on the surface of the floor.

Be careful of application marks and always try to avoid thick spots as a result of overlapping and/or uneven material distribution.

With a 1 coat finish, the pores are sealed to a large extent, without seriously affecting the optical structure of the floor.

As soon as the Topper 12 has been correctly applied and evenly spread, start ventilating to avoid saturating the air with water vapor.

If there is no ventilation and the coating remains moist for too long, surface imperfections and insufficient coating film-formation may occur.

After curing the result will be a glossy floor.

Remarks

Do not apply the Quartzline flooring systems on substrates with rising moisture.

After application, the Quartzline floor must be protected from damp, condensation and water for at least 24 hours.

Mixed materials must be processed immediately as workability will be reduced when pot-life expires.

Do not use in wet areas, not suitable for continuous water loads.

The incorrect assessment and treatment of cracks may lead to a reduced service life and recurrent cracking.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both CO² and water vapour which may adversely affect the finish.

For heating, only use electric powered warm air blower systems.

Do not use any underfloor heating during application or for the first 48 hours, after this period you may increase the temperature gradually.

Cleaning/maintenance

To maintain the appearance of the floor after application, the floor must be kept clean and all spillages removed immediately.

The floor must be cleaned regularly using a rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc.
Always use suitable detergents and waxes.

Clean the floor with tepid water. Never use hot water (warmer than 40 °C).

Value base

All technical data stated in this technical data sheet is based on laboratory tests.
Actual measured data may vary due to circumstances beyond our control.

Health and safety information

For information and advice on the safety handling, storage and disposal of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

Legal notes

The information, and in particular the recommendations related to the application and end use of Quartzline products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Quartzline's recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

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