Primer GW

Description

Primer GW is a two-component water-based primer, based on high-grade epoxy resins which contain excellent adhesive properties.

Very suitable for non to low absorbent subtrates, such as:

- Concrete floors
- Cement bonded subfloors
- Existing epoxy and polyurethane screeds and coatings
- Hardbaked and glazed ceramic tiles

Properties

Water-based	
High alkali resistance	
Solvent-free	
Good adhesion qualities	
Fast drying	
Viscosity adjustable with water	
Density[1] (g/cm^3)	1,00
Adhesive strength[2] (n/mm^2)	> 1.5 (Concrete fracture)

[1] = EN 12190, 14 days/ + 23ºC / 50% R.H
[2] = EN 4624, 14 days/ + 23ºC / 50% R.H

Form

Component A: Liquid, white
Component B : Liquid, light yellow

Packaging

Component A: 2.5 kg, 5 kg, 10 kg and 20 kg bucket
Component B : 2.5 kg, 5 kg, 10 kg and 20 kg bucket

Sets: 5 kg, 10 kg, 20 kg and 40 kg

Shelf life / Storage

Up to 6 months from date of production if stored correctly in the original, unopened and undamaged sealed packaging and stored dry between +5 ºC and +30 ºC.

Mixing

Mixing ratio: Component A: Component B = 50: 50 (parts by weight)

While mixing add part B to part A and mix continuously for 2 minutes until a uniform mixture has been achieved.
Depending on the substrate, add 20% to 50% water.

Gradually add small amounts of the water at intervals, making sure that the previous amount has been fully dissolved into the mixture. Start with small amounts of water and slowly increase as the mixture gets thinner.
After the two components have been uniformly mixed, gradually add the water at intervals and in very small steps while mixing. This is to ensure that the water is fully absorbed by the mixture.
To ensure thorough mixing pour the materials into a second container and mix again for one minute to achieve an even consistency.

Mixing is preferably done with a power mixer at high speed with a Quartzline WK 90 mixer paddle.

System construction

Primer: **Primer GW** is used on sealed, non to low absorbent substrates.

Substrate	Ratio primer / water	Consumption
Cementitious Screed	50% water	100 tot 150 g/m^2
Concrete	50% water	100 tot 150 g/m^2
Anhydrite	50% water	100 tot 150 g/m^2
Wood	50% water	100 tot 150 g/m^2
Linoleum	30% water	100 tot 150 g/m^2
PVC	30% water	100 tot 150 g/m^2
Tiles	30% water	100 tot 150 g/m^2
Natural stone	30% water	100 tot 150 g/m^2

On porous substrates, use Bouwhars/harder for dust binding and strengthening of the substrate.

On an anhydrite or calcium sulphate screed substrate, always apply a layer of “Quartzline Primer BHH” instead of Primer GW.

Always perform a preliminary adhesion test

Scratch coat: For levelling and/or to seal the substrate, scratching must take place with a scratch coat. This can be a coloured Quartzline SL-Ep Scratchcoat or a SL-PU Scratchcoat or a transparent/milky Primer BHH with Microdol A100 filler.

Wearing layer: The following Quartzline floor systems can be used with **Primer GW**:

- SL-PU D30
- SL-PU D60
- SL-PU D70
- SL-PU UV
- SL-EP 2K
- Coating EPG
- Coating PU SG Coloured
- Quartzline Mortar

Topcoat: Coating PU MG Matt or Satin Gloss, Coating PU STU and Coating PU SG Coloured or Transparent.

See the relevant technical data sheet to find out which floor / coating combinations are possible.

FOR ALL SELF-LEVELING SYSTEMS THE FOLLOWING APPLIES:
After applying the primer and optional scratch coat, the surface must be sealed BEFORE the self-leveling layer is applied. This is done to avoid blisters and holes in the finishing coat

Consumption

Depending on the substrate approx. 100 to 150 g/m².

All values are theoretical and depend on porosity and levelness of the substrate.

When in doubt, always perform a preliminary adhesion test.

Substrate preparation

The substrate must be clean and dry and free of dirt, oil, grease and any other impurities or contaminants.

The substrate must be sound and sufficiently compression resistant (at least 25 N/mm²), with a minimum adhesive strength of 1.5 N/mm².

Weak concrete and loose cementitious levelling must be removed, and surface damage such as blowholes and voids must be repaired with Quartzline Epoxygel and then primed again. **DO NOT USE POLYESTER PUTTY** as no adhesion will be obtained.

The concrete or screed substrate must be primed.
Uneven substrates must be levelled in order to achieve an even substrate. Use Quartzline Cementitious SL Underlayment or Cementitious SL Constructive. Please see corresponding Technical Data Sheet for more information.

Before applying the product, all dust and loose parts must be fully removed, preferably using a brush and/or industrial vacuum cleaner.
Concrete substrates must be mechanically prepared using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Application conditions

Surface temperature:	Minimum 10ºC, maximum +35ºC
Ambient temperature:	Minimum 10ºC, maximum +35ºC
Substrate moisture content:	< 4% damp To be tested with a carbide meter.
Relative air humidity	Maximum 80% R.H.
Dew point:	Beware of condensation!

The temperature of the substrate and non-hardened material must be at least 3ºC higher than the dew point to reduce the risk of condensation, efflorescence or stickiness (carbamate formation) on the floor finish.

Remark: Low temperatures and high air humidity increase the risk of efflorescence or carbamate formation.

Application

Potlife @ 20ºC	60 minutes
Touch-dry @ 20ºC	6 hours
Foot Traffic @ 20ºC	12 hours
Fully cured @ 20ºC	7 days

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

Preferably apply with a soft paint roller.

When used under a grit or mortar floor, sprinkle with approx. 200 g/m² kiln dried quartz for improved adhesion.

In the case of mechanical application, sprinkle with Quartzline 0.4-0.8 sand.

In the case of manual application, sprinkle with Quartzline 0.25-0.4 sand.

When using an **epoxy system** as a subsequent layer, it is sufficient to wait until the moisture from the Primer has evaporated, this will take 1.5 to 2.5 hours, depending on the circumstances.
The primer will still be sticky but clear and any cloudy yellow patches should no longer be visible. Only when this is achieved can two layers be applied on the same day.

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

Remarks

Low temperatures and/or high air humidity lengthen the curing times.

Uneven or dirt covered substrates should not be treated with thin coatings. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.

Protection from rainwater and moisture is necessary during processing and hardening.

Wrong assessment and treatment of cracks can result in a reduction of lifespan and recurring cracking.
Mixed materials must be processed immediately as flow and defoaming will be reduced when pot life date expires and the material becomes stiff and unworkable.

If heating is required, do not use gas, oil, paraffin or other fossil fuel burners.
These produce large quantities of CO_2 and water vapour, which can adversely affect the finish.
For heating, only use electrically powered hot air ventilation systems.

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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