

Primer Universal

Description

Primer Universal is a one-component water-based primer, based on high-grade acrylic resins which show very good adhesive properties.

Very suitable for absorbent substrates, such as cementitious screed subfloors or non-monolithic finished concrete. Also very good adhesion for ceramic tiles.

Applicable as dust binder under synthetic resin-bonded stone carpets floors.

Primer Universal is the preferred primer that can be applied directly under our Cementitious SL or Alpha SL systems.

Form

Liquid, milky white

Packaging

10 kg bucket.

Shelf life / Storage

Up to 6 months after production date if kept in the original, sealed, unopened and undamaged packaging and stored dry between +5 °C and +30 °C.

Mixing

Manually mix bucket contents before use.
Depending on the substrate, add water and mix thoroughly.
Refer to primer / water ratio further on in this sheet.

System construction

Primer: ALWAYS use a layer of **Primer Universal** underneath a Quartzline Cementitious SL system.
Start at the farthest corner and work towards the exit. On porous surfaces apply the floor primer using a pourer with a fine spray head, and spread it with a soft brush. On non-porous substrates apply the Primer Universal with a piled roller. Allow the primer to dry until filming occurs, recognisable by the transparent gloss.
Remove or spread any pools of primer before finishing the floor. After film formation has occurred apply the floor mortar within 24 hours.

On a cement or calcium sulphate screed substrate, always apply a layer of "Quartzline Primer BHH" before the Primer Universal is applied.

Properties

Water-based	
Solvent-free	
Excellent adhesion qualities	
Fast drying	
Density ¹ (g/cm ³)	1,02
Viscosity ² (mPa.s)	400 - 500
Solid content	+/- 37,5 %
Adhesive strength ³ (N/mm ²)	> 1.5 (Concrete fracture)

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

² = Brookfield, LV4, 30 RPM, @ 23°C

³ = EN 4624, 14 days/ + 23°C / 50% R.H

Mixing ratio and consumption under Quartzline Cementitious SL:

Surface	Ratio primer/water	Consumption
Blasted Concrete	1:3	300 - 500 g/m ²
Monolithic Concrete	1:1	150 - 250 g/m ²
Wood	undiluted	300 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	250 g/m ²
Steel	undiluted	250 g/m ²
Magnesite	1:1	250 g/m ²
Cementitious Self-Levellings	1:1	250 g/m ²

PRIMER CONSUMPTION IS INDICATIVE AND DEPENDS ON VARIOUS FACTORS.

Very absorbent surfaces must be saturated with "Primer Universal" using the correct mixing ratio. This will prevent the substrate from absorbing water from the Cementitious SL Decorative mixture and avoid problems such as shrinkage, possible surface pores or a weak and dusty surface.

Mixing ratio and consumption under a Quartzline mortar or stone or marble carpet

Substrate	Ratio primer / water	Consumption
Cementitious Screed	1:3	200 g/m ²
Blasted concrete	1:3	200 g/m ²
Monolithic concrete	1:1	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
Magnesite	1:1	250 g/m ²
Cementitious Self-Levellings	1:1	250 g/m ²

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

- Alpha SL Underlayment
- Cementitious SL Decorative
- Cementitious SL Constructive
- Cementitious SL Underlayment
- Quartzline Stone carpet
- Quartzline Marble carpet
- Quartzline Mortar (Only in areas with no water load)

Topcoat: Please refer to the relevant TDS's for the appropriate topcoat.

Consumption

Depending on the substrate, refer to the table above.

Substrate pretreatment

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

The substrate must be clean and dry and free of dirt, oil, grease and other soiling.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

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.

All dust, loose and friable material must be fully removed from all surfaces before the product is applied, preferably using a brush and/or industrial vacuum cleaner.

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

Allow any filling layers such as Cementitious SL Underlayment or Constructive to dry thoroughly, then sand them and prime again with "Quartzline Primer Universal" diluted 1 to 1.

With subsequent installations of floor coverings, cementitious screeds are required to display a residual moisture content of < 2,0 CM-%. (Heating screeds < 1,8 CM-%)

CAUTION for Anhydrite:

Unfortunately, Anhydrite / Calcium Sulphate screeds come in many different qualities. Therefore, Quartzline BV states that after vacuuming, the floor must be primed with "Quartzline Primer BHH" and then lightly broadcasted with 0,4 - 0,8 kiln dried sand. Then one layer of undiluted "Quartzline Primer Universal".
The anhydrite / Calcium Sulphate screeds are required to display a residual moisture content of < 0,5 CM-%. (Heating screeds < 0,3 CM-%)

Application conditions

Substrate temperature:	Minimum 10°C, maximum +30°C
Ambient temperature:	Minimum 10°C, maximum +30°C
Substrate moisture content:	< 4% moisture To be tested with a carbide measurement.
Relative air humidity	Maximum 80% R.H.
Dew point:	Beware of condensation!

During drying, the humidity should not exceed the 80% maximum RH. While the product is drying, ensure that sufficient ventilation with fresh air is able to remove the excess moisture. If the air is saturated, the film CANNOT dry.

Application

On porous surfaces apply the floor primer using a pouter with a fine spray head, and spread it with a soft brush. On non-porous substrates apply the Primer Universal with a piled roller. Allow the primer to dry until filming occurs, recognisable by the transparent gloss. Remove or spread any pools of primer before finishing the floor. After film formation has occurred apply the floor mortar within 24 hours.

Remarks

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

Primer Universal is for interior use only and unsuitable for constant moisture loads.

If heating is required, do not use gas, oil, paraffin or other fossil fuels. These cause large quantities of both CO₂ and H₂O 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 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

This 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.

The user of the products must test the product's suitability for the intended application and purpose. Quartzline reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request