

PU Resin for screed

High quality colorless polyurethane water-soluble resin

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High-quality, transparent, water-based polyurethane resin for the creation of decorative quartz coatings. It is used for mixing with quartz aggregates to form a paste-like coating for the decoration and protection of surfaces. Suitable for use on walls and floors, in both interior and exterior spaces.



Stir well before use



Coverage:
depending on the type of surface



Drying time:
Touch dry after 4-6 hours



Paint:
Spatula

Product Characteristics

- New technology polyurethane water-soluble resins.
- High adhesion
- Great mechanical strength.
- High resistance to weather conditions and to solar radiation
- High elasticity.
- Long life.
- Excellent decorative effect.
- Wide range of decorative applications

Shades

Available in a colorless form and not tintable. The final coating shade is achieved by using colored quartz aggregates, allowing for a wide range of color options.

Packaging:

10lt



The above information is based on laboratory audits and the long experience of the scientific staff of the company. The quality of the product is guaranteed by the company's operating system which is based on the requirements of ISO 9001, ISO 45001, ISO 14001 and the EMAS regulation. As producers we are not responsible for any damage or damage caused in the event that the product has not been used for the appropriate application and in accordance with its instructions for use.



Specific Gravity	1,03 ± 0,02 gr/ cm ³ (ISO 2811)
Viscosity	70-80 K.U., 25°C
pH	7,5-8,8 ± 0.2
Coverage	<p>The performance of the coating depends on the type of surface, the application method, as well as the ratio and grain size of the quartz aggregates.</p> <p>The coating thickness typically ranges from 1.5 to 2.5 mm, depending on the grain size used. For optimal decorative results, grain sizes of 0.6–1.2 mm and 1.2–1.8 mm are recommended. The indicative mixing ratio is 1 liter of resin to 3–4 kg of quartz aggregates, while the final coverage may vary depending on the above parameters (see detailed table below).</p>
Application	<p>The application of the material should be done by metal spatulas. For application on vertical surfaces a special thickener should be added in resin before adding quartz to facilitate the application.</p>
Drying time	<p>Touch dry after 4 to 6 hours depending on weather conditions and the thickness of the coating. In depth after 1 to 2 days (These times may be prolonged depending on temperature and humidity).</p> <p>The material develops full strength after 14 days.</p>
Recoating	<p>After at least 24 hours and depending on the thickness of the coating, the temperature and humidity of the room environment.</p> <p>After the final coating, a 2-layer protective coating (varnish) should be applied, such as PU Varnish.</p> <p>For surfaces permanently exposed to water it is recommended to use Berocyd 111 epoxy varnish in two coats.</p> <p>To apply the final protective varnish, the quartz coating must be fully cured and in no case should it be applied before 24 hours have passed under normal temperature and humidity conditions.</p>

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Recommended application systems

Calculations example

An example of calculating the required number of materials.

When using **0.6-1.2mm quartz**, I will need **5kg of mixture per square meter**, resulting from mixing **1.25 liters of resin and 3.75kg of quartz sand**.

When using **1.2-1.8mm quartz**, I will need **6kg of mixture per square meter**, which will result from mixing **1.35lt of resin and 4.65kg** of quartz sand.

In case of larger quartz grains, consumption varies and increases.

Granule size	0,6 - 1,2	1,2- 1,8
Quartz quantity in kilograms	3	3,5
Resin quantity in liters	1	1
Consumption	4,0- 5,0 kg/m ²	5,0-6,0 kg/m ²
Thickness	1,5-2mm/ coat	2,0-2,5 mm/coat

Surface preparation

The surface to be coated should be clean, dry, and free of loose materials. Surface humidity rate should not exceed 3.5%.

New cementitious surfaces must have matured sufficiently before applying the coating.

On highly absorbent surfaces, the appropriate primer should first be applied to achieve a reduction in absorbency. As a primer, polyurethane resin without quartz aggregates can also be used after thinning with 20-30% by volume with water.

On non-absorbent surfaces, e.g. tile, marble, mosaic etc. the product Quartz Tiles is applied as a primer, specialized for non-absorbent surfaces. The surface to be coated must be stable and level (concrete, cement, tile, etc.).

At external floors substrate's waterproofing is required

Safety instructions



Storage

Storage indoors to avoid exposure to high or low surfaces and high humidity conditions. Avoid sources of heat, radiation, static electricity, and storage near food. Keep container tightly closed. After opening can use product in a short period of time. Close the can well.



Safety Instructions- Prevention of environmental harming

Minimize paint wastage by estimating how much paint you will need. Recover unused paint for reuse. Reuse of paint can effectively minimize the products life cycle environmental impact. Clean tools with water and soap. Do not put residual paint down the kitchen sink or toilet or into a waste bin. Empty cans with paint residues should be handled the same way and disposed according to local Regulations. You should ask for advice for the local government section responsible for the collection and disposal of waste. Ask for advice from an authorized body for waste recovery. Wear protective gloves and goggles/ Do not eat, drink when handling the product. Wash wand with suitable cleaning products. Keep out of reach of children. Always read the can label before use.
For further information ask for the Safety Data Sheet of the product.