GC PRIMER

Product Characteristics

2 COMPONENT WATER BASED RAPID MODIFIED EPOXY DPM PRIMER

- VOC close to "0" and water based.
- Gains structural adhesion on both compact, close grained or porous construction materials, even if humid and non-completely cured concrete (green concrete).
- Forms an effective barrier against back pressure through the sub-strates.
- Forms a waterproof layer, can be applied to damp substrates.
- Excellent substrate sealer.
- Can be over coated with both transpiring and water and vaporproof coating systems.
- Cures perfectly at temperatures close to +5°C and very high R.H.
- The fast-curing time at temperatures close to 20°C, allows several daily over applications.
- Once fully cured and finished with suitable finishing coats, it resists up to 10 bar water back pressure.
- Application temperature from +5°C and rising and maximum surface temperature is 30°c

Application fields

- Wide range multi-purpose adhesion enhancer. This primer is compatible with severe concrete conditions (temperature, humidity).
- Suitable for the treatment of humid concrete substrates and over-coating with
  - floor coatings
  - seam-less waterproofing systems
  - anticorrosive rigid and elastic coatings.
  - Hydraulic concrete structures like tubes, canals and water reser-voirs.
- Suitable for sealing porous concrete by roller or trowel scratch coats
- Used for sealing of cementitious substrates for a variety of finishes, industrial floors, roofs etc.
- Gains perfect direct adhesion to ceramic tiles without mechanical preparation. Useful for any over-coating verifying suitable primers depending on the system used.

Application

Product preparation

Two-component product to be mixed thoroughly first of use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B to component A and mix until when completely homogenized for about 3 minutes.

Based on the intended use, after mixing, possibly dilute the product with water while stirring:

- adding up to 18% by weight of water.

The dilution and addition of quartz must be carried out after the complete mixing of the two components, homogenizing with same agitator.

Substrate preparation

The substrate to be treated must be healthy and free from pollution of foreign substances. The substrate must have a surface tear strength of not less than 1.5 MPa. It is essential to roughen the surface before laying. Any other methods of substrate preparation (sandblasting, sanding, or scarifying) must be carefully evaluated case by case.

Product application

The prepared product can be applied by brush or roller with a consumption of 500g / m² possibly diluted with 5-12% of water. It is possible to apply more coats.

Depending on the uses, it is possible to load the product with

quartz (0.06-0.25mm 0 0.1-0.5mm) up to 30%. The application layer can be further treated with saturation quartz dusting.

After use, the tools must be washed with water.

Technical data

Color	Dark grey
Specific weight	1.70 ± 0.03 Kg/l
Mixing ratio	100 parts by weight of base 100 parts by weight of hardener
Pot life at 25°C	45 ± 7 minutes
Dry content	77 % in volume
Hardening 22°C, 50% U.R.	- dry to the touch 2 hours - insensitive to water 3 hours - over-application 4 hours - fully hardened 15 days
Thickness	300 microns per 700 g/m²
Permeability to carbon dioxide EN 1062-6	Sd > 50 m
Water vapor permeability EN 7783-2	Sd < 5 m
Capillary absorption, water permeability EN 1062-3	W< 0,1 kg/m² x $h^{0.5}$
Compatibility with humid concrete EN 13578	No swelling, no cracking, no spalling. > 3,5 MPa
Adhesion to concrete UNI EN 1542	> 3,0 MPa or breakage of concrete
Storage	Product kept in its original, sealed packaging in dry and protected environment with temperatures between +5°C and +35°C it maintains for 12 months.

All data and prescription reported on the present data sheet are based on the best lab and practical experience and should anyhow be considered as indicative. Considering all different uses and the occurring of situations and conditions independent from LIQUID ROOFING SYSTEMS (substrate, climate conditions, technical management etc. Those who intend to use the product should verify whether it is suitable for the specific conditions in which it will be applied before starting. LIQUID ROOFING SYSTEMS's responsibility covers the quality and productions standards referring to the above listed data only. Data should also be verified for latest available version of data sheets which could be surpassed by a new version. Data may change any time without notice from LIQUID ROOFING SYSTEMS.