



Tecnica 162

Description

Two-component, solvent-free, epoxy-based primer which can be used under waterproofing materials and floor coverings and is resistant to chemicals due to its phenalkamine curing properties.

Fields of Application

- Over concrete substrates, cement screeds,
- As a primer under Tecnica floor coatings,
- As a primer under polyurethane floor coatings,
- As a primer under polyurethane/ polyurea waterproofing systems,
- As a primer under self-leveling floor screeds and decorative floor coatings,
- With the addition of the appropriate amount of silica sand, it can be used as a repair mortar.

Properties

- Provides excellent adherence on challenging substrates.
- Fast curing properties in low temperatures (+10 °C) and high humidity environments.
- Low viscosity.
- Solvent free.
- Easy to apply.

Preparation of Substrates

- Concrete substrates to be applied on must be dry, solid and have an enough compressive strength property (min. 25 N/mm²).
- Pull off strength of the surface should be minimum 1.5 N/mm².
- The substrate must be clean, free of dust, dirt, cement laitance, coatings, curing materials which may prevent adhesion.
- Surface preparation should be done by using abrasive blast equipment. Cement laitance should be removed until open textured aggregate level is reached.
- The concrete surface to be applied should be cleaned by using a high pressure water jet.
- Surface moisture should not exceed 4% pbw.
- Rising moisture should be avoided. PE sheet coating test is recommended for control.
- Attention should be paid to the surface temperature, which must be within the range of minimum +10°C – maximum +30°C and be 3°C over the dew temperature.
- Before application, the suitability of surface moisture, relative humidity, temperature and dew point conditions should be checked.

Application

- Tecnica 162 is supplied as a set of two pre-weighed packs in exact proportions.
- The temperature of the product should be within 15-25 °C.
- The component A should be mixed prior to the addition of the component B. Component B should be added to the component A completely without leaving any residues in the packaging.
- Components A and B should be mixed with a stirrer 300-400 rpm for 3-4 minutes in the stated mixing proportions.
- It should be mixed continuously for 3 minutes until a homogeneous mixture is obtained.
- Over mixing should be avoided in order to prevent air entrainment.
- Silica sand (0.1-0.3 mm) can be added to the mixture in the ratio of 1:0.5 – 1:2 depending on the surface characterize, for thickening purpose, to use as a primer.
- Application temperature should be between +15°C and +25°C. At high temperatures, drying and curing times, viscosity and, accordingly, consumption may decrease, while at low temperatures this time may increase.
- Can be applied by brush or roller, or by pulling on the surface with a flat trowel.
- Continuous, non-porous layers of application should be ensured.
- If the surface of the primer is to be coated with an epoxy or polyurethane coating; silica sand should be sprinkled with a minimum grain size of 0.3 mm and a maximum grain size of 1.0 mm, at a consumption of 1 kg/m², while the primer is still wet.
- Second coat application should not exceed 48 hours, and if it is exceeded surface must be thoroughly abraded to give an adequate mechanical key.



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Consumption

- 0.3–0.5 kg/m² as a primer. Usage and consumption depends on the surface properties and system solutions.

Post-Application Protection & Suggestions

- If the application will be done by preparing a mortar with sand (aggregate) addition, the maximum grain size should be 1/3 of the thickness of the finalized coating thickness.
- Aggregates and the most convenient mixture should be selected according to the aggregate type, application temperature and application purpose.
- Application is not allowed in the areas where rising moisture is exist.
- Primer should not pool on the surface.
- Tecnica 162 is not convenient for permanent water contact until it is coated with a suitable coating.
- Trial applications should be conducted to decide convenient aggregate type and ratio.
- Attention should be paid to the temperature, moisture and dew point conditions. Application should not be continued if the temperature decreases. Rising temperature during the application or before complete drying can create pinholes on the surface.
- Application should be avoided in excess air current conditions.
- Since Tecnica 162 is an epoxy resin based product; properties like drying and curing times, viscosity, pot life may exhibit variations depending on the temperature conditions. These properties decrease at high temperatures and increase with the lower temperatures.
- Tecnica 162 should be applied by professional applicators.
- Surface should be protected against direct water contact for at least 24 hours after application. Water contact leads coating to lose its properties and it should be removed and reapplied.
- Shelf life is valid for appropriate storage conditions without opening the pails.
- Appropriate working clothes, protecting glasses, gloves and masks should be worn during application.
- For further information refer to the safety data sheet.

Storage

- Packages should be kept dry and cool at between +5°C and +30°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 24 months conditional to complying with the above mentioned conditions.

Packaging

- Component A: 12,36 kg container
- Component B: 5,64 kg container
- Components A+B: 18 kg ready to mix units

Quality Certificates

Complies with EN 1504-2



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Technical Properties

(at 23 °C and 50% RH)

General Data

Appearance/Colours	Component A: Transparent liquid Component B: Amber colored liquid
Shelf Life	24 months when stored in the original sealed packaging
Mixing Ratio (A/B)	12.36 kg / 5.64 kg
Mixture Density	~ 1,10 ± 0,02 kg/l

Application Data

Surface Temperature	(+10°C)-(+30 °C)
Working Time	Maximum 25 minutes
Overcoatibility (20 °C)	8 hours
Final Cure (+20°C)	7 days

Performance Data

Shore D Hardness (TS EN ISO 868)	≥75
Compressive Strength (Mortar with sand by a ratio of 1:9, 7 days, EN 196-1)	≥30 N/mm ²
Flexural Strength (Mortar with silica sand by a ratio of 1:9, 7 days, EN 196-1)	≥10 N/mm ²
Bond Strength (EN 1542)	≥2 N/mm ² (failure in concrete)