



### Description

Two component, low viscosity, solvent free, epoxy based primer.

### Fields of Application

- Priming concrete substrates, cement screeds and epoxy mortars
- Normal to strongly absorbent surfaces
- Primer for all Tecnica epoxy floorings
- Binder for repair, levelling mortars and mortar screeds
- Internal and external use

### Properties

- Low viscosity
- Good penetration ability
- High bond strength
- Solvent free
- Easy application
- Multi-purpose
- For external use also

### Preparation of Substrates

- Concrete substrates to be applied on must be dry, solid and have an enough compressive strength property (min. 25 N/mm<sup>2</sup>). Pull off strength of the surface should be min. 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, free of dust, dirt, coatings, curing materials which may prevent adhesion.
- Trial application should be conducted in case of suspicion.
- Surface preparation should be done by using abrasive blast equipment. Cement laitance should be removed until open textured aggregate level is reached.
- 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 should maintain within the temperature range of min. 10°C – max. 30°C and be 3 °C over the dew temperature.
- Cracks should be repaired if necessary.
- Before application, the suitability of surface moisture, relative humidity, temperature and dew point conditions should be checked.

### Application

- Tecnica 142 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 residue in the packaging.
- Low speed (300-400 rpm) electrical stirrers should be used for mixing.
- Mixing should be for about 3 minutes until a homogenous mixture is achieved.
- The entire mixture should be poured into another container and remixed for 2 minutes more to ensure a homogenous mixture.
- 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 profile, for thickening purpose, for usage as a primer.
- By the addition of silica sand in the ratio of 1:10, w/w material can be used as a repair mortar.

Tecnica 142



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### Application Method

#### Primer

- Can be applied by roller, brush or squeegee.
- Continuous, non-porous layers of application should be ensured.
- If the surface of the primer is going to be covered with an epoxy or polyurethane coating; approximately 1 kg/m<sup>2</sup> of silica sand (0.1-0.3 mm grain sized) should be spread on the surface while it is still tacky.

#### Levelling Mortar

- After the addition of required silica sand for the levelling purpose, application can be done by trowel or squeegee.

#### Bonding Bridge

- Can be applied by roller, brush or squeegee.

#### Mortar Coating/Repair Mortar

- Apply the mortar screed evenly on the still "tacky" bonding bridge, using levelling battens and screed rails if necessary. After a short waiting time compact and smoothen the mortar with a trowel or Teflon coated power float (usually 20 – 90 rpm).

### Consumption

- 0.3 – 0.5 kg/m<sup>2</sup> 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 existent.
- Primer should not be collected on the surface.
- Tecnica 142 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 142 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 142 should be applied by professional applicators.
- Surface should be protected against direct water contact for at least 24 hours. 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: 13.9 kg containers
- Component B: 6.1 kg container
- Components A+B: 20 kg ready to mix units

### Quality Certificates



EN 1504-2



Tecnica 142

**Technical Properties**

(at 23 °C and 50% RH)

**General Data**

Appearance/Colours	Component A: Transparent liquid Component B: Brownish liquid
Shelf Life	24 months in original sealed packaging.
Mixing Ratio (A/B)	13.9 kg / 6.1 kg
Mixture Density	~1.10 g/cm <sup>3</sup>

**Application Data**

Consumption	0.3 - 0.5 kg/m <sup>2</sup>
Surface Temperature	10 – 30 °C
Pot Life (23 °C)	~20 minutes
Overcoatibility (+20°C)	12 hours
Final Curing (+20°C)	7 days

**Performance Data**

Shore D Hardness (7 days, DIN 53505)	~75
Compressive Strength (Mortar with silica sand by a ratio of 1 to 9,7 days, EN 196-1)	~33 N/mm <sup>2</sup>
Flexural Strength (Mortar with silica sand by a ratio of 1 to 9, 7 days, EN 196-1)	~10 N/mm <sup>2</sup>
Bond Strength (EN 1542)	>2 N/mm <sup>2</sup> (failure in concrete)
Thermal Resistance	
Permanent Exposure	50°C
Short Term (max. 7 days)	80°C
Short Term (max. 12 hours)	100°C