



Description

Solvent free, two component, textured epoxy coating.

Fields of Application

- Over concrete substrates, cement screeds
- As a final coat for broadcast multi-layer systems
- Normal-medium wear and chemical exposure areas
- Car parks and maintenance workshops
- Control rooms
- Food and beverage industries
- Production, packaging and storage areas
- Galleries and exhibition areas
- As floor coating for ramps
- Garages

Properties

- Easy application
- High mechanical strength
- High abrasion resistance
- Chemical resistance
- Textured and anti-slip finishing
- Yellowing due to UV exposure does not affect mechanical resistance
- Solvent free

Preparation of Substrates

- 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 min. 1.5 N/mm².
- 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.
- Weak concrete parts should be removed, pores on the surface should be completely opened.
- Surface should be repaired and smoothed.
- Surface moisture should not exceed 4% pbw.
- Surface should be primed with Tecnica 132 / Tecnica 142 or be levelled to create a smooth surface.
- If the surface moisture rate is more than 4% as weight based, the Tecnica 152 moisture barrier epoxy primer should be used.
- 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.

Application

- Tecnica 342 OP is supplied as a set of two pre-weighed packs in exact proportions.
- The temperature of the product should be within 15 °C - 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 (300-400rpm) electrical stirrers should be used for mixing.
- Mixing should be for about 2 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.



Tecnica 342 OP

Application Method

Primer

- A smooth and continuous primer layer should be ensured. Primer layer can be applied by a roller or brush.

Coating

- Tecnica 342 OP should be spread over the surface by a trowel and finalized with a textured roller to provide final texture.

Consumption

- App. 0.5 kg/m² for a single layer as a 0.5 - 0.7 mm thick coating.
- App. 0.8 - 1.0 kg/m² as a final coat (2 layers) for multi-layer systems.
- Usage and consumption changes depending on the surface properties and system solutions.

Post-Application Protection & Suggestions

- Application is not allowed in the areas where rising moisture is existent.
- Primer should not be collected on the surface.
- Tecnica 342 OP is not convenient for permanent water contact until it is coated with a suitable coating.
- 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 342 OP 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 342 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.
- For colour matching the same batch numbered products should be used.
- High load applied to a single point, floor heating systems, high temperatures may create traces on the resin.
- 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 12 months conditional to complying with the above mentioned conditions.

Packaging

- Component A: 17.0 kg containers
- Component B: 3.0 kg containers
- Components A+B: 20 kg ready to mix units

- For chemical resistance properties please refer to Chemical Resistance Table.

Quality Certificates



EN 1504-2



Tecnica 342 OP

Technical Properties

(at 23 °C and 50% RH)

General Data

Appearance/Colours	Component A: Coloured liquid Component B: Brownish liquid
Shelf Life	12 months in original sealed packaging
Mixing Ratio (A/B)	17.0 kg / 3.0 kg
Mixture Density (A+B)	~1.74 g/m ³

Application Data

Consumption(for single layer)	~0.5 kg/m ²
Surface temperature	10 – 30 °C
Pot life	60 min.(depending on the amount)
Final Curing	7 days

Performance Data

Shore D Hardness (28 days, DIN 53505)	≥ 70
Bond Strength (EN 1542)	≥2,0 N/mm ² (failure in concrete)
Abrasion Resistance (EN ISO 5470-1 Taber)	≤100 mg (CS10, 1000 cycle, 1000gr)
Thermal Resistance	
Permanent exposure	50°C
Short term (max. 7 days)	80°C
Short term (max. 12 hours)	100°C