Kalekim

Tecnica 352

Epoxy Based Two Component Protective Top Coat

Technical Data Sheet

Tecnica 352

Description

Epoxy resin based two component, solvent free, top coating that protects concrete and steel.

Fields of Application

- Over concrete substrates, cement screeds,
- Normal-medium wear and chemical exposure areas,
- Metal or concrete tanks,
- Potable water reservoirs,
- Car parks and maintenance workshops,
- Food and beverage industries,
- Pharmaceutical and hospital laboratories,
- Production, packaging and storage areas,
- Used as a top coat in vertical applications with its thixotropic formulation that does not run down on the wall.

Properties

- High mechanical and abrasion strength.
- Chemical resistance.
- Water impermeable.
- Jointless, a uniform surface can be obtained and is easy to clean.
- Solvent free.
- Easy to apply with mohair roller.
- According to BS6920 standard, it is suitable for use in contact with water intended for human consumption.

Preparation of Substrates

- The concrete or metal surface to be coated with Tecnica 352 must be dry, strong and durable.
- Strength of the surface should be minimum 1.5 N/mm^2.
- The substrate must be clean, free of dust, dirt, cement laitance, coatings, curing materials which may prevent adhesion.
- Weak concrete parts should be removed, pores on the surface should be completely opened.
- Surface should be repaired and levelled.
- It is suitable for use without primer on concrete or screed surfaces.
- Concrete surface should be primed with Tecnica 132 / Tecnica 142 or be levelled to create a smooth surface.
- Surface moisture should not exceed 4% pbw.
- If the surface moisture rate is more than 4% as weight based, the Tecnica 152 moisture barrier epoxy primer should be applied.
- The steel surfaces to be coated must be dry and free of dust, oil and grease. Steel surface should be sanded.
- 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 ºC – max. 30 ºC and be 3 ºC over the dew temperature.
- Before application, the surface humidity, relative humidity, temperature and dew point conditions must be suitable.

Application

- Tecnica 352 is supplied as a set of two pre-weighed packs in exact proportions.
- The temperature of the product should be within 20-25 ºC.
- 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.
- Components A and B should be mixed with a stirrer 400-600 rpm for 3-4 minutes in the stated mixing proportions.
- 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.

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Application Method

- Tecnica 352 can be applied with a mohair roller on the wall.
- Tecnica 352 can be applied in two coats to ensure complete coverage.
- Second coat application should not exceed 24 hours, and if it is exceeded surface must be thoroughly abraded to give an adequate mechanical key.
- In damaged areas where Tecnica 352 will be applied it is important that the areas to be treated are well abraded using a stiff rotary wire brush to give an adequate key. The surface should be cleaned completely as if applying for the first time.

Consumption

- Tecnica 352 should be apply 2 coats.
- Tecnica 352 should be applied with a consumption of 0,15-0,20 kg/m^2 in one coat.

Post-Application Protection & Suggestions

- Application is not allowed in the areas where rising moisture is exist.
- Primer should not be pooled on the surface.
- 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 temperature should be between +12°C - +30°C.
- Application should be avoided in excess air current conditions.
- Since Tecnica 352 is an epoxy resin–based material, its properties such as drying and curing time, pot life, and viscosity vary depending on temperature. Changes in ambient temperature can affect characteristics like pot life, drying time, and viscosity. At high temperatures, the curing time and pot life may decrease, while at low temperatures — particularly below 15°C — the viscosity may increase, making the application more difficult.Tecnica 352 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: 16,67 kg container
- Component B: 3,33 kg container
- Components A+B: 20 kg ready to mix units

Quality Certificates

CE

EN 1504-2

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Technical Properties

(at 23 °C and 50% RH)

General Data

Appearance/Colours	Component A: Coloured liquid Component B: Transparent liquid
Shelf Life	12 months when stored in the original sealaed packaging
Mixing Ratio (A/B)	16,67 kg / 3,33 kg
Mixture Density	~1,59 g/cm^3

Application Data

Consumption (for single layer)	~0,1 kg/m^2
Surface Temperature	10 – 30 ºC
Pot Life	75 minutes (depending on the amount)
Initial Cure (23 °C)	12 hours
Final Cure	7 days
Dry Film Thickness	200 microns (each layer)

Performance Data

Shore D:	≥85 (7days)
Bond Strength:	
Bonding to Concrete (EN 1542)	>2,5 N/mm^2 (7 days)
Bonding to Steel (EN 1542)	>2,5 N/mm^2 (7 days)
Flexural Strength	≥30 N/mm2 (7 days)
Compressive Strength	≥60 N/mm2 (7 days)
Abrasion Resistance	~90 mg (CS10/1000d/1000g) (8 days)

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Chemical Resistance Table		
Formaldehyde	%37 solution	+
Sulphuric Acid	%50 solution	+^
Hydrochloric Acid	%32 solution	+
Lactic Acid	%80 solution	-
Nitric Acid	%65 solution	-
Sodium Hydroxide	%50 solution	+
Diesel		+
Hard water		+
Aircraft fuel (JET A1)		+
Aircraft fuel (VLSFO)		+^
Vegatable oils		+
Gasoline		+^
Biodiesel		+^
Aluminium Sulfate	%50 solution	+
Sodium Chloride	%20 solution	+
Sodium Carbonate	%100 solution	+
İron (III) Chloride		+^
Ammonium nitrate	%32 solution	+
Glycerin		+
Tap Water		+^
Sodium Hypochlorite	%6-14 solution	+^
Citric Acid	%50 solution	+

Marker
+ Durable (^) Fading , - Nondurable *Semi-durable

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