Kalekim

Tecnica 242 SL

Epoxy Based, Solvent Free, Two Component, Self Levelling and Broadcast System

Technical Data Sheet

Description

Two component, solvent free, epoxy based self levelling and broadcast system coating material.

Fields of Application

- On concrete substrates
- Areas subject to normal-medium heavy mechanical wear like storage areas and assembly halls, maintenance workshops, garages, loading ramps
- Multi-floor and underground car parks and maintenance hangars
- Food and beverage industry
- Malls and supermarkets
- Showrooms and exhibition areas
- Garages

Properties

- Easy application
- High mechanical strength
- High chemical resistance
- Glossy surface finishing
- Slip resistant surface possible
- Solvent free

Preparation of Substrates

- Concrete substrates to be applied on must be dry, solid and have an enough compressive strength (min. 25 N/mm^2).
- Pull off strength of the surface should be min. 1.5 N/mm^2.
- 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 should be repaired and levelled.
- Surface moisture should not exceed 4% pbw.
- Concrete and screed surfaces should be primed with Tecnica 132 or Tecnica 142 and levelled to obtain an even 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 ºC – max.30 ºC and be 3 ºC 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 242 SL is supplied as a set of two pre-weighed packs in exact proportions.
- The temperature of the product should be within 15-25 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.
- Low speed (300-400 rpm) electrical stirrers should be used for mixing.
- Mixing should be for about 2 minutes until a homogenous mixture is achieved.
- After mixing components A and B, dry and clean silica sand (0.1-0.3 mm) can be added and mixed for 2 minutes. 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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Revision Date: <REV_TARIHI>

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Application Method

Levelling

- Rough surfaces need to be levelled first. Therefore use Tecnica 132 or Tecnica 142.

Coating

- Tecnica 242 SL should be poured to the surface and spread by a notched trowel. For a better finishing result, turn the notched trowel and smoothen the surface.
- To obtain an even thickness and get rid of entrained air, use the spiked roller immediately in two directions perpendicular to each other.

Broadcast Slip Resistant Coating

- Tecnica 242 SL should be poured on the surface and spread with a serrated trowel.
- Bubbles should be removed by passing over the surface with a spike roller.
- If the surface of the primer is going to be broadcasted, sprinkle sand within 15-30 minutes at 20 °C after application, first lightly then to excess.

Consumption

- 1.7 kg/m^2 of 1:1 w/w Tecnica 242 SL and 0.1-0.3 mm dry and clean quartz sand mixture for 1 mm thickness as a self smoothening wearing course.
- 2.0-2.2 kg/m^2 of 1:1 w/w Tecnica 242 SL and 0.1-0.3 mm dry and clean quartz sand mixture for 1 mm thickness as a broadcast system.
- App. 6 kg/m^2 broadcasting quartz sand (0.4-0.7 mm)
- Usage and consumption depends 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.
- 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 242 SL 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 242 SL 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 the surfaces subject to limited exposure having normal absorbency, priming with Tecnica 142 is not required.
- 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:16.32 kg containers
- Component B: 3.68 kg containers
- 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
Mixing Ratio (A/B)	16.32 kg / 3.68 kg
Mixture Density (A+B)	~1.45 kg/l
Mixture Density (1:1 w/w Resin:filler mixture)	~2 kg/l

Application Data

Surface temperature	10 – 30 °C
Pot life (23°C)	45 min. (depending on the amount)
Final Curing (+20°C)	7 days

Performance Data

Shore D Hardness (28 days, DIN 53505)	≥65
Bond Strength (EN 1542)	≥2,0 N/mm^2 (failure in concrete)
Abrasion Resistance (EN ISO 5470-1 Taber)	<70 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

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