Kalekim

Tecnica 3250 WP

Technical Data Sheet

Polyurea Based Two Component Sprayable Waterproofing Coating

Tecnica 3250 WP

Description

Polyurea based, two component, solvent-free, very fast reactivity and curing waterproofing membrane consisting of A component isocyanate prepolymer, B component an amine mixture and special fillers.

Fields of Application

- Can be applied on;
  - Internal and external areas,
  - Horizontal and vertical substrates,
  - Concrete, cementitious mortar, steel, wood, metal, plastic, bitumen, glass, tile substrates.
- Used as waterproofing and coating material at;
  - Roofs, terraces and balconies,
  - Carparks,
  - Chemical and petrochemical industries,
  - Waste water treatment plants,
  - Steel and concrete pipes,
  - Bridges and tunnels.
- It is used as a floor coating material in the food and other industry sectors, farms, parking areas, wagons and ship industry.

Properties

- Allow easy and fast application.
- Rapid curing within 10 seconds, and allows early serviceability within 35 seconds.
- Fully trafficable after only 1 hour.
- Applicable on vertical surfaces without runs.
- Thanks to its spray delivered and ultra fast curing, it enables easy application to form a monolithic waterproofing membrane in large areas.
- Excellent bond to substrate.
- High impact and abrasion resistance.
- Resistant to a variety of chemicals.
- Has excellent thermal shock resistance (-40°C - +200°C).
- Resistant to weathering.
- Long life expectancy.
- Solvent free.

Preparation of Substrates

- Surfaces must be clean, sound and dry. Dust, oil, grease, old coatings, must be cleaned or removed prior to application.
- Prepare the substrate mechanically by sanding or shotblasting to remove all dust and crumbling or detached parts from the substrate to leave a dry, porous, slightly rough surface free of contaminants.
- Concrete and other cementitious substrates must have a minimum pull off strength of 1.4 MPa and minimum compressive strength of 25 MPa.
- It should be noted that the new reinforced concrete structures on which the application will be applied have completed the 28-day curing period.
- Surface moisture should not exceed 4% pbw.
- Repair any hollows, cavities and detached parts in the substrate with Tamirart 40 or Tamirart S40.
- The temperature of the subfloor should be a minimum of +10°C.
- After preparing the surface as described for concrete and cementitious substrates, apply Tecnica 162 multipurpose epoxy based primer with a smooth spatula or squeegee and sprinkle the surface with quartz sand. Two coats of primer should be applied on highly absorbent surfaces.
- If the level of humidity in the substrate is higher than 4% and it is not possible to wait until it drops to a lower value, Tecnica 152 moisture barrier epoxy primer must be used.
- Tecnica 3250 WP, should be applied within 12 to 24 hours after application of the primer.
- Clean the existing bituminous membrane to remove all traces of oil, grease, dirt in general and any other substance or material which could affect adhesion of the following coat of primer. Remove all dust with a vacuum cleaner or compressed air. If there are any damages in the membrane (such as blisters, tears, or detached areas), it must be repaired before applying the primer.
- On steel and metal surfaces; after treating the surface, apply a coat of Tecnica 162, two-component epoxy primer with a brush, roller or airless spray on the metal.

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Application

- Tecnica 3250 WP A and B components are ready-to-use products. During the application, do not mix or thin Tecnica 3250 WP with solvents; this may adversely affect product performance.
- Tecnica 3250 WP must be applied with a heatable (70-75 °C), two component high pressure (110-165 bar) industrial spray equipment. Mixture quantities and dosages should be checked regularly.
- It must be applied continuously on all the horizontal and vertical surfaces 2-4 times by wet-on-wet application.
- It can be broadcast with dry silica sand on fresh membrane to provide a hard wearing, slip resistant finish before tiling.
- Tecnica 3250 WP is sprayed in multidirectional passes to ensure uniform thickness of at least 2mm. It is recommended to control application thickness regularly.
- The dew point should be checked before and during the application.

Post-Application Protection & Suggestions

- Tecnica 3250 WP should be applied by trained and experienced professionals.
- Beware of condensation; the substrate must be at least 3°C above dew point to reduce the risk of condensation.
- Tecnica 3250 applied surfaces should be protected from mechanical damages for at least 24 hours. Fresh membrane should be protected from water, dew and similar external factors, dust, dirt and solvents.
- The reaction speed is influenced by the temperature of the ambient and the building structure; higher temperatures accelerate, lower temperatures slow down the reaction.
- If Tecnica 3250 WP is applied indoors, a suitable ventilation system should be used.
- Do not apply in extremely hot, rainy, windy weather.
- Do not apply on damp, wet or frozen surfaces.
- Precautions should be taken in areas where water or water vapor is observed from the negative side.
- Before the application, the surface humidity and adherence should be checked and the dew point should be determined.

Storage

- Packages should be kept dry and cool at between +16°C and +30°C in damp free conditions avoiding direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 6 months under above mentioned storage conditions.

Packaging

- Component A : 220 kg in drums
- Component B : 200 kg in drums

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Technical Properties

(at 23°C and 50% RH)

General Data

Color	RAL Color Chart
Shelf life	6 months in original sealed packaging
Mixing ratio (A/B)	220 kg / 200 kg
Density	~ 1.10 ± 0.05 g/cm^3
Viscosity (80°C)	100 ± 10 cP
Shore A (DIN 53505)	75 ± 5
Dry to touch time	15 ± 5 seconds
Curing time (T=+20)	25 ± 5 seconds
Fully cured - mechanical durability	1 day
Consumption (for 1 mm thickness)	~1.1 kg/m^2

Performance Data

Tensile strength (DIN 53504)	> 21,0 ± 0,5 MPa
Tear strength (ISO 34-1)	75 ± 10 N/mm
Elongation at break (DIN 53504)	> %400 ± 50
Adhesion to metal (DIN EN 24624)	≥ 2.3 MPa
Adhesion to concrete (DIN EN 24624) Without primer With primer	 ≥ 0.9MPa ≥ 1.5 MPa
Resistance to high heat exposure in a short time (T=200°C, 1 minute)	No change
Water resistance	Resistant, waterproof

Application Data

Ambient temperature	+5 °C / +35 °C
Processing temperature (Flow heater, hose heater)	70-75 °C
Maximum substrate moisture	4%

Chemical Resistance

%10 Sodium chloride /NaCl	Resistant
%10 Sulfuric acid /H2SO4	Resistant
%10 Hydrochloric acid /HCl	Resistant
%20 Ammonium /NH4+	Resistant
%50 Sodium hydroxide /NaOH	Resistant
%20 Potassium hydroxide /KOH	Resistant

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