

Description

Two-component, highly elastic, fast-drying, bitümen-polyürethane based liquid waterproofing material that provides strong adhesion to almost any surface.

Fields of Application

- Waterproofing of flat roofs, balconies and terraces,
- Waterproofing of old bitüminous and EPDM membranes,
- In foundation walls and structures below ground level,
- In retaining walls,
- Waterproofing of car parking areas,
- Protection and waterproofing of concrete structures such as bridges, tunnels.

Properties

- Fast curing.
- It provides seamless and continuous waterproofing on the applied surface.
- It has high flexibility and crack-bridging capability
- It maintains its elasticity down to -40°C.
- It is resistant to water and frost.
- It adheres excellently to both primed and unprimed surfaces. (It is recommended to perform a controlled sample before unprimed application.)
- It can be easily repaired locally.
- It is easily and quickly applied with a brush and roller.

Preparation of Substrate

- The substrate must be sound, dry, clean and free of any contaminants like dirt, oils, dust etc. That may prevent good adhesion. The surface must be cleaned from all materials like existing coating prior to application.
- Where necessary, surface preparation should be done through sanding or similar mechanical surface abrasion processes, and all surfaces should be thoroughly cleaned from dust by using industrial vacuum equipment.
- Concrete and cement-based surfaces should be mechanically sound, with a minimum tensile strength of 1.4 MPa and a compressive strength of 25 MPa.
- Care should be taken to ensure that new reinforced concrete structures to be applied on have completed a curing period of 28 days.
- The moisture content in concrete must be checked before application. Surface moisture should not exceed 4%.
- Any potential pits, cracks, pores, segregation, cracks, and defects in the concrete should be repaired with Tamirart 40 or Tamirart S40.
- Sharp corners at corners and junctions in the applied area should be rounded, and horizontal and vertical junctions should be puttied with Tamirart S40 or Kalepolymas.
- Tecnica 3100 P should be applied to absorbent surfaces such as concrete, cement, screed, wood, etc. If the surface moisture content is greater than 4% by weight, Tecnica 152 moisture barrier epoxy primer should be used.
- After applying Tecnica 3100 P or Tecnica 152, Tecnica 3140 WP bitümen-polyürethane based waterproofing material should be applied while the material is still in a tacky state, typically 6-12 hours later (not exceeding 24 hours).
- Dust on the surface of old bitümen membranes should be removed using a vacuum cleaner or compressed air. The membrane surface must be completely dry, and if there is any damage such as blistering, tearing, or detachment, it should be repaired before primer application.
- On steel and metal surfaces, after the surface is properly cleaned, Tecnica 162 multi-purpose epoxy primer should be applied as a primer.

Application

- Before applying Tecnica 3140 WP, components A and B should be mixed thoroughly in a clean container using a low-speed mixer until a homogeneous color and consistency are achieved.
- The prepared mixture has a usage time of 30-35 minutes at 20°C, and this usage time varies proportionally with changes in ambient temperature.
- Tecnica 3140 WP, prepared for application, should be applied in two coats using a brush or roller on the primed surface with the prepared sub-base.
- The second coat should be applied within 12 hours after the first coat (within 24 hours at the latest).
- To achieve the intended and desired long-term performance of the product, it is necessary to protect or cover the application with a suitable coating (such as plaster, screed, ceramic, etc.) as soon as possible after the completion of the entire application, typically within 3-7 days depending on the drying time of the applied product, in accordance with the purpose and details of the work.
- The application thickness should be a minimum of 2 mm. Regular checks of the application thickness should be conducted to ensure compliance.

Post-Application Protection & Suggestions

- Tecnica 3140 WP should be applied by trained and experienced professionals.
- For Tecnica 3140 WP, thinning with any solvent and applying thick coats is not recommended.
- Smoking should be avoided during application, and work should be conducted in well-ventilated areas, away from naked flames.
- Hands and eyes should be protected with gloves and safety goggles during application.
- Surfaces that have been completed should be protected from mechanical stress for at least 24 hours. Fresh surfaces should be protected from water, dew, dust, dirt, and solvent substances.
- 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 3140 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.
- Necessary precautions should be taken in areas where water or water vapor is observed from the negative side.
- Before application, the moisture and adhesion of the substrate should be checked, and the dew point should be determined.

Storage

- The product should be stored in its original unopened undamaged packaging, in a clean and dry place between +5°C and +25°C and should not be exposed to direct sunlight.
- Protect from water, frost and severe weather conditions.
- Shelf life is maximum 12 months when stored in the original sealed packaging.

Packaging

- Component A : 20 kg tin pail
- Component B : 20 kg tin pail

Technical Properties

(23 °C and %50 RH)

General Data

Appearance	Black
Shelf Life	12 months when stored in the original packaging
Mixing Amount (A/B)	20 kg / 20 kg
Density of Mixture	- 1.0 ± 0.02 g/cm ³
Shore A (DIN 53505)	35
Drying time	2 hours
Full cure mechanical strength	7 days
Pot Life (20 °C)	30 minutes
Consumption (for 1 mm thickness)	Approximately 0.75-1.00 kg/m ² for each coat Total theoretical consumption: 1.50-2.00 kg/m ²

Performance Data

Elongation at break (ASTM D412)	≥ 2000 %
Tensile strength (ASTM D412)	≥ 2 N/mm ²
Adhesion to concrete (ASTM D 903)	≥ 1 N/mm ²

Application Data

Temperature	+5 °C / +35 °C
Max. surface moisture	4%

Tecnica 3140 WP