



**TECNOFLOOR STF-7020** - TWO COMPONENT, ALIPHATIC, TRANSPARENT BINDER BASED IN POLYURETHANE FOR DECORATIVE USE WITH AGGREGATES

IT is a two-component, aliphatic, odorless, transparent, 100% solids polyurethane to be used as a binder suited as a stone encapsulation for walkable and traffic areas exposed to the UV rays.



## USES

For application in the following situations:

- Internal and external areas as garages, or paths
- Walkable and car-traffic allowed

**NOTE:** call our technical department about the application to other situations.

Density	1.00 ±0.05 g/cm <sup>3</sup>
Viscosity	1,700~2,500 cps
Pot life	±30 minutes
Dry time	4 ~5 hours
Application method	By notched trowel



## COLORS

Transparent



## GENERAL FEATURES

- Transparent and aliphatic polyurethane (can be exposed to UV rays, outdoor applications are allowed), 100% solids, water-free, solvent-free (odorless), flexible and with high resistance to surface abrasion
- Don't add water or solvent
- The application must be carried out on firm, resistant substrates and in conditions of no presence of moisture in the substrate or water from the substrate or backsplash, either at the time of application or afterward (pressure from the water table...). In the case of existing humidity in the substrate at the time of application, consult the technical data sheets of our primers where the ranges of resistance to humidity are specified.
- To reduce the risk of condensation, both the substrate and the ambient temperature should be a least 3 °C above the dew point at the time of application.
- Binder for encapsulating aggregates. Approximate mixing ratio by weight (aggregates:resin) 14:1. Check that the mixture is homogeneous throughout its material section and that it perfectly surrounds the aggregates.
- This mixing ratio is assumed for aggregate size > 7 mm in diameter. For smaller diameters/sizes, increase the amount of resin mixed, to achieve good compactness and homogeneity of the mixture.
- It is highly recommended to add 5 kg (for every 100 kg of main aggregate) of fine aggregate in the mixer, to give compactness to the whole.

## PACKAGING

Metallic drum kit: 2.50 kg+4.5 kg

## STORAGE AND SHELF LIFE

12-months shelf life is stored in original containers in a dry environment at a temperature between 5-35 °C (41-95°F). Keep away from direct sunlight, extreme heat, cold or moisture. Once the tin has been opened, the product must be used.

## APPLICATION METHOD

**Concrete/mortar substrate:** Concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used. Concrete must be strong, cohesive and dry, having a correct planimetry, high surface resistance, eliminating laitance, graise, oils or release agents, without excessive irregularities. Existing holes or areas with a lack of material must be repaired using some of our epoxy resins: Primer EP-1020/Primer EP-1010. Mastic PU must be used on fissures or small cracks on the surface. In joints: remove old material, clean and fill with Mastic PU. Complement with a Tecnoband 100 band on the upper part. In structural/expansion joints: remove old material, clean and fill with Mastic PU. Complement with specific elastic bands and Tecnoband 100. General cleaning of the substrate. PRIMING: use Primer PU-1050/Primer PUc-1050, Primer EP-1020, Primer EP-1010 or Primer WET, depending on the existing moisture in the substrate. Open the pails of the two components, mix and homogenize using a mixer at medium speed. Simultaneously, add the correct proportion of aggregates (approx. 100 kg of aggregate for every 7 kg of binder) to the large mixer and pour in the previously prepared mixture. Mix for approximately 3-4 minutes, or as long as is necessary for proper homogenization of the aggregates with the binder. Pour the mixed resin and aggregate onto the substrate, then distribute it with a notched trowel or similar to control thicknesses and consumption. Finish the surface with a trowel or suitable tool.

**NOTE:** For other types of substrates, weather conditions or the substrate to be applied, consult our technical department.

## HEALTH AND SAFETY

Respiratory Protection: When handling or spraying use an air-purifying respirator. Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work



and before eating, drinking, or smoking. Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in the air. Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations. Re-occupancy of the work site without respiratory equipment is minimum 24 hours providing the correct ventilation for the area sprayed. Contractors and applicators must comply with all applicable and appropriate guidelines for storage and safety guidelines. These safety recommendations for handling, are necessary for the implementation process as well as in the pre and post, on exposure to the loading machinery. Dispose waste in accordance with star or/and local regulations.

## TECHNICAL DATA

PROPERTIES			VALUES
Density	ISO 1675		1.00 ±0.05 g/cm <sup>3</sup>
Viscosity	ISO 2555		1,700~2,500 cps
Density compounds	A/B	ISO 1675	1.15 ±0.05 g/cm <sup>3</sup> / 1.00 ±0.05 g/cm <sup>3</sup>
Viscosity compounds	A /B	ISO 2555	1,000 ~1,400 cps / 2,800~3,100 cps
Solids content	ISO 1768		100 %
Tensile strength			7 ~8 MPa
Elongation at break			50 ~70 %
Hardness Shore D	DIN 53.505		>40
Pot life / dry time			±30 minutes / 4 ~5 hours
Ready to use: pedestrian /traffic car			8~10 hours / 24 hours
Ambiance/Substrate temperature range			3°C ~ 30°C / 5°C ~ 25°C
Mixing ratio (in weight) resin: aggregates			1:14

*Results were performed in the laboratory at 23°C and 50% RH, under controllable conditions. These values may vary depending on the application, climatology, or substrate conditions.*

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