



**Advanced
Pavement
Systems**



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

Primer for finishing coats for concrete pavements and protective coatings

Tecnofix EP 51

<i>Description</i>		Epoxy-poly-ammino primer, in water emulsion, two – components, transparent, not charged, which cures at room temperatures by drying and polymerization.
<i>Characteristics</i>		Easy spreading and application. Good adhesion even to wet or with no superficial water substrates. Good bonding capacity on pulverised and dusty substrates. Ecologic cycle
<i>use</i>		As transparent finishing coat for cement based flooring slabs, to be used as anti-dust treatment, for moist substrates, for indoor applications in industrial and civil buildings.
<i>Application</i>		<i>Tools</i> : : short haired roller, alternatively long and wide brush (15mm), or by airless spray equipment with nozzle 21/24 and roller. <i>Temperature of application</i> : 10 ÷ 35 °C and relative humidity max. 60% <i>Clean tools with</i> : water

METHOD OF USE

PREPARATION OF THE SUBSTRATE

Prior the application of the protective coatings, it is necessary to verify the condition of the cementitious substrate: it must be clean and oil free, without fats, delaminating particles and free from cracks and discontinuities. The preparation of the substrate should be done choosing the proper following procedures:

- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Vacuuming and/or washing with pressured water is always recommended.
- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, apply the coating only on de-dusted and sound substrates;
- Sandblast or shotblast with steel abrasive grit is needed in case of not-cohesive parts.

Avoid the application on substrates contaminated with oil and/or greases.

APPLICATION

Make sure the room is well ventilated and follow the recommendations stated in the Material Safety Data Sheet on the use of PPE (Personal Protective Equipment).

Continue with the application of **Tecnofix EP 51** as follows:

- Pour component B in component A with mixing ratio 1:1 and mix for 2-3 minutes, or till complete homogenisation of the mix, using a suited drill with whip.
- After mixing the two components, add water, always mixing, till complete homogenisation (dilution ratio suggested: water from minimum 1:1 to 1:2 maximum). Do not add water before mixing the 2 components, otherwise the products does not polymerize.
- wait 10 – 15 minutes (induction time) and apply by short hair roller, or in case of big surfaces, by airless spray.
- wait till drying of the film, than proceed with the second layer.

IMPORTANT : when the temperature of the ambient and the substrate are less than 15°C, it is necessary to heat separately the 2 components of the product to a maximum temperature of 30°C (eventually en bain-marie) in order to maintain the low viscosity and the better applicability.

DO NOT APPLY AT TEMPERATURE LOWER THAN 10°C.

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APPLICATIVE CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 4%
Ambient temperature	: +10°C / +35°C
Relative humidity	: max 60%
Dew point	: the substrate and the product must be at a temperature of minimum 3°C above the dew-point to reduce the risk of condensation

PACKAGING

☒ Supply - kg

component	a	b	a+b
pail	5	5	10

STORAGE

Store the original and unopened packaging at a temperature between + 5°C and + 35°C. Product can be kept 12 months from the production date.

TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at 20 ± 2°C	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES
Mixing ratio in weight	-	A : B	50 : 50
Specific weight	EN ISO 2811-1	kg/l	~ 1,00
Solid content in weight	-	%	30 ± 2
Consumption	-	g/m ²	100 ÷ 150
Final dry thickness (150 g/m ²)	EN 1062 - 1	μ	~ 45
Pot life	EN ISO 9514	hours	~ 2
Workability time of the mix	EN ISO 9514	minutes	60 ± 20
Touch dry	I – 54 (internal)	hours	~ 6
Complete dry	-	days	7
Adhesion to concrete , direct pull-out (tested in Tecnopav EP 205 cycle)	EN 1542	N/mm ² Type of failure	> 4 A (concrete failure)

Note: the above technical characteristics refer to the product diluted in water with 1:1 ratio

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.

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TECNOCHEM ITALIANA S.p.A.
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,
TEL. **39 035 55.48.11 – TELEFAX **39 035 55.48.16
E-mail: info@tecnochem.it- www.tecnochem.it