

## TECHNICAL DATA SHEET

5TG1.TR2

RESINA EPOSSIDICA TR2

(EPOXY RESIN TR2)

Creation date 30/08/17

Rev.2

GENERAL INFORMATIONS		
Solvent free, 2k epoxy-amine. TR2 is suitable for impregnate, strength and prepare concrete surfaces for next topcoat applications. It is also suitable for one coat applications of industrial floor where chemicals, oils, acids and bases resistance. For civil floors we recommend to overpaint it with our ACRICAR 305 HS (transparent acrylic two components paint)		
PHISICAL AND CHEMICAL CHARACTERISTICS		
		NOTE
SPECIFIC WEIGHT	1.1 ± 0,1 Kg/L	
VISCOSITY	R3 2500 CP a 20°C	Brookfield Method
SOLID CONTENT	100 ± 1% (by weight)	Theoretical
SPREAD REATING: (50 µm dry)	200 g/ m <sup>2</sup>	Theoretical
AVAILABLE DYES	Transparent and on request	
CATALYSIS	By weight: 100 (5TG1.TR2) + 45 (HDR5.TR2)	
BINDER NATURE	Epoxy resin	

TECHNOLOGICAL AND RESISTANCES CHARACTERISTICS	
RESISTANCES	
COMPRESSION RESISTANCE	105 Mpa (N/mm <sup>2</sup> )
TRACTION RESISTANCE	73 Mpa (N/mm <sup>2</sup> )
THERMICAL EXPANSION COEFFICIENT	(α) ca. 18*10 <sup>-6</sup> K <sup>-1</sup>
SHORE D HARDNESS	83
GLASS TRANSITION TEMPERATURE	65°C
CONTINUOUS WATER IMMERSION	Good
MECHANIC STRESS	Really good
MODULUS OF ELASTICITY	2800 Mpa (N/mm <sup>2</sup> )
ALKALINE COMPOUNDS	Really good
ALIPHATIC COMPOUNDS	Really good
AROMATIC COMPOUNDS	Good
ALCOHOLIC COMPOUNDS	Good
ACID SALTS (DILUTED)	Good
ALKALINE SALTS (DILUTED)	Good
FATS AND OILS	Really good
APPLICATION MODE	
ROLLER, BRUSH	Dil. 0-5% with EPOXY THINNER
POT LIFE	2 hours (high temperature can accelerate the process)
HARDENING TIMES	
WALKABLE	12 hours
LIGHTLY STRESS RESISTANCE	3-4 days
COMPLETE HARDENING	7-10 days
<i>Hardening times can change considerably according to temperature and thickness of the application.</i>	



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<b>OVERPAINTING</b>
Between 24 hours and 72 hours. After 72 hours mechanical roughen is required for good adhesion of the next topcoat application.
<b>SURFACES PREPARATIONS</b>
Dry and clean from all form of types of impurities. Maximum relative humidity of concrete must be under 4%. To paint new floors concrete have to be completely seasoned (time of seasoning is about 28 days)
<b>ENVIROMENTAL CONDITIONS</b>
Surface temperature must be 3 degrees over dew point. The product do not hardening below 8°C
<b>TOOLS CLEANING</b>
Tools can be easily cleaned by not polimerized product with TH4.1000 (DILUENTE NITRO ANTINEBBIA).
<b>STORAGE</b>
In fresh and dry places, avoiding direct contact with sunlight, TR2 results stable for 12 months.

The information given in this sheet and founded on our experience are not intended to be fully exhaustive. Whilst we endeavour to ensure that all advices we give about the product (whether in this sheet or otherwise) are correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Is supposed that every user liberally opts for the products described on this sheet, after verifying suitability according its requirements. This product is intended for use only by professional applicators in industrial, according the advices described on this sheet, the material safety data sheet and the packaging.