



VHDRS®
Very
High
Durability
Repair & Prevention
Systems







Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

Tecnoriv EP 600 AL

PROTECTIVE COATING SUITED FOR CONTACT WITH LIQUID OR SOLID FOOD ACCORDING TO THE CURRENT STANDARDS.

<i>Description</i>		Two-component paint, based on epoxy resins, solvent free, which cures at room temperatures.
<i>Characteristics</i>		Liquid, charged with fillers and pigments. Good adhesion, even on metal. High chemical resistance to water, oils, aliphatic hydrocarbons, saline solutions, alkali solutions and diluted acids. <i>Suited for contact with alimentary liquids and solids according current norms.</i>
<i>Use</i>		For the realisation of a medium thick coating (600 ÷ 1000 micron) for the protection of concrete constructions against aggressive chemicals. As coating for the internal of reservoirs with liquids and solid food stuffs.
<i>Application</i>		<i>Tools:</i> by brush, roller, or by airless spray with nozzle 40/45. <i>Applied on</i> Sanded steel Sa 3 or primer Tecnofix EP (to be chosen according the type of substrate) <i>Temperature of application:</i> 10 ÷ 35°C and relative humidity of max 60%. <i>Clean tools with :</i> MEK or acetone.

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 greases, 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.

CHOICE OF PRIMER

The use of a primer as base-coat is necessary to consolidate the substrate and to improve the adhesion of any consecutive protective coating. Depending on the type of substrate it is recommended to use the following primers:

- **TECNOFIX EP 51** with smooth and well-compacted substrates, suited also in case of presence of superficial humidity.
- **TECNOFIX EP 110** with smooth and well compacted substrates, but perfectly dry (max. 3% superficial humidity)
- **TECNOFIX EP 170** for irregular, but cohesive substrates, suited also in case of presence of superficial humidity.
- **TECNOFIX EH 100** for irregular and wet, but cohesive substrates.

(see also the relative datasheets)

Edition: 10/2008
Date revision: 04/2013

Nr. rev.: 2

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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).

After the drying of the applied primer, continue with the application of **Tecnoriv EP 600 AL**, in 2 layers, as follows:

- Pour component B in component A and mix for 2-3 minutes or till complete homogenisation of the mix, using a suited drill with whip.
- apply by short hair roller, or in case of big surfaces, by airless spray. If necessary, for a better spraying, it's possible to dilute the product with 3÷5% alcohol wine.
- 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.

APPLICATIVE CONDITIONS

Temperature of substrate	: +10°C / +35°C
Humidity of substrate	: ≤ 3%
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

REMARK

Do not apply the product when the temperature of application is higher than 50°C

PACKAGING

☒ Supply - kg

<i>component</i>	a	b	a+b
Pail	7.5	2.5	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.

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TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at 20 ± 2°C	TEST METHOD	UNIT OF MEASUREMENT	TYPICAL VALUES
Mixing ratio in weight	-	A : B	7,5 : 2,5
Total solid in weight	-	%	≈ 100
Specific weight at 20 ± 2°C	EN ISO 2811-1	kg/l	~ 1,38
Viscosity Brookfield LV at 20 ± 2°C	EN ISO 3219	cP	10.000 ± 2.000
Consumption per layer	-	g/m ²	250 ÷ 350
Final dry thickness (per 300 g/m ²)	-	μ	~ 220
Pot life at 20 ± 2°C	EN ISO 9514	minutes	~ 75
Workability time at 20 ± 2°C	-	minutes	~ 45
Touch dry at 20 ± 2°C	I – 54 (internal)	hours	~ 12
Completely hardened at 20 ± 2°C	-	days	7
Immersion temperature resistance	-	°C	50
Adhesion direct pulling on concrete	-	N/mm ²	> 3
Hardness shore D	UNI EN ISO 868	Type of failure -	A = failure in concrete 82

Chemical resistance :

- Weak mineral acids
- strong mineral acids
- organic acids
- weak alkali's
- strong alkali's
- salts

excellent
 Very good
 sufficient
 excellent
 excellent
 excellent

- Alcoholic solvents
- ketone solvents
- aromatic solvents
- water
- sugars
- fruit juice

sufficient
 insufficient
 insufficient
 excellent
 good
 good

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

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 Date revision: 04/2013

Nr. rev.: 2

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