



Certified Quality System since FEBRUARY 1993

From Project to Jobsite

Protective coating systems for concrete floors

Tecnoriv EP 400 GREY

PROTECTIVE COATING CHEMICAL RESISTANT

CYCLE approved – Certificate n. 1305 - CPD - 0809
EN 1504-2 prospect ZA.1g

Description Two-components paint, based on epoxy-ammino resins, charged with fillers

and pigments, solvent free, which cures at normal temperatures.

Characteristics Good adhesion
High chemical resistance to water, oils, aliphatic hydrocarbons, saline solutions,

and diluted acids.

For the realisation of a medium thick coating (600 ÷ 1000 micron) for the

protection of concrete constructions against aggressive chemicals.

Application

Tools: by brush, roller, or by airless spray with nozzle 40/45.

Applied on Sanded steel Sa 3 or primer Tecnofix EP (to be chose)

Applied on Sanded steel Sa 3 or primer Tecnofix EP (to be chosen according the type of substrate)

Temperature of application: 10 ÷ 35 °C and relative humidity of max 60 %.

Clean tools with: MEK or acetone or epoxy diluents.

METHOD OF USE

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.

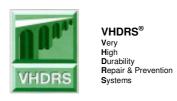
CHOICE OF PRIMER

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: 01/2006 PROTECTIVE COATING SYSTEM FOR CONCRETE FLOOR -Tecnoriv EP 400 Date revision: 11/2011 Nr. rev.: 9 pag. 1/3





Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

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 **Tecnoriv EP 400**, 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 paddle mounted on a slow speed drill.
- apply by short hair roller, or in case of big areas, 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 $^{\circ}$ C, it is necessary to heat separately the 2 components of the product to a maximum temperature of 30 $^{\circ}$ C (eventually en bainmarie) in order to maintain the low viscosity and the better applicability.

DO NOT APPLY AT TEMPERATURE LOWER THAN 10℃.

APPLICATIVE CONDITIONS

Temperature of substrate : +10 °C / +35 °C

Humidity of substrate : \leq 3%

Ambient temperature : $+10^{\circ}$ C / $+35^{\circ}$ 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								
component	а	b	a+b					
Pail	8	2	10					

STORAGE

Store the original and unopened packaging at a temperature between $+5^{\circ}$ C and $+35^{\circ}$ C. Product can be kept 12 months from the production date.

Edition: 01/2006 PROTECTIVE COATING SYSTEM FOR CONCRETE FLOOR Tecnoriv EP 400 Date revision: 11/2011 Nr. rev.: 9 pag. 2/3





Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at	Test method	Unit of	Typical values	
20 <u>+</u> 2℃		measurement	31	
Mixing ratio in weight	-	A : B	8:2	
Specific weight	EN ISO 2811-1	kg/l	~ 1,43	
Viscosity Brookfield LV	EN ISO 3219	cР	14.000 ± 2.000	
Solid residue in total in weight	-	%	≈ 100	
Consumption per layer	-	g/m²	300 ÷ 350	
Final dry thickness (per 300 g/m ²)	-	μ	~ 200	
Pot life	EN ISO 9514	minutes	90 ± 10	
Workability time	EN ISO 9514	minutes	~45	
Touch dry	I – 54 (internal)	hours	~6	
Completely hardened	-	days	7	
PERFORMANCE	Test method	Unit of	Typical values	Limit values
CHARACTERISITICS		measurement		according
				EN 1504-2
Adhesion direct pulling on concrete	EN 1542	N/mm ²	> 4	<u>≥</u> 2
		Type of failure	A = failure in	(with traffic)
			concrete	
Hardness shore D	EN ISO 868	-	82	-
Resistance to serious chemical attack *	EN 13529	-	82,5	Reduction of
(measurement of hardness after 28				the hardness
days contact)				< 50%

^{*} for the details of the test, consult the certificates, available upon request.

Chemical resistance:

			441 1
Weak mineral acids	excellent	Alcoholic solvents	sufficient
strong mineral acids	good	ketone solvents	insufficient
organic acids	insufficient	aromatic solvents	insufficient
weak alkali's	excellent	water	excellent
strong alkali's	excellent	sugars	good
salts	excellent	fruit juice	good

The above date are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product of for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.

Edition: 01/2006 PROTECTIVE COATING SYSTEM FOR CONCRETE FLOOR Tecnoriv EP 400 Date revision: 11/2011 Nr. rev.: 9 pag. 3/3