



Very  
High  
Durability  
Repair &  
Prevention  
System



Certified Quality System since **FEBRUARY 1993**

## From Project to Jobsite

# Protective coating cycle for concrete

## Tecnoriv AL 70 Ral (see colour chart)

PROTECTIVE COATING  
AGAINST THE RISK OF PENETRATION

CYCLE approved – Certificate n. 1305 - CPD - 0810  
**EN 1504-2 table ZA.1d**

Description

One-component acrylic coating, in water solution, charged with pigments and fillers, and rapid air-drying.

Characteristics

Good adhesion to substrates in cement  
Good flexibility and good resistant to abrasion  
Excellent water vapour permeability.  
High resistance against carbonation

Use

For the waterproofing, not subjected to foot-traffic, of flat roofs, and roofs in general, even with micro-cracks. For the realisation of a continuous membrane at high thickness (up to 1 mm), but not for waterproofing vapour.

Application

*Tools:* by brush, roller, by spray-equipment, airless with nozzle 18/23.

*Application on:* primer Tecnofix AC 150

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

*Wash tools with :* 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 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 shot - blast 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).

After drying of the applied primer, proceed with the application of Tecnoriv AL 70, in 2 or more layers, depending on the required thickness, as follows:

- mix the product in the pail for 1-2 minutes with a suitable, low speed handmixer;
- apply by short haired paint roll or, in case of larger areas, by airless spray equipment;
- wait the drying of the applied paint layer before proceeding with the second coat.

**Do not apply when the temperature is lower than +10°C .**

Emission date: 01/2006  
Revision date: 03/2015

Nr. rev.: 6

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### APPLICATION CONDITIONS

Temperature substrate	+10 °C / +35 °C
Humidity substrate	≤ 3%
Ambient Temperature	+10 °C / +35 °C
Relative ambient humidity	max 60%
Dew Point	The substrate and the product shall be at a temperature minimum 3°C higher than the dew point to avoid the risk of condensation.

### PACKAGING

Pail of 25 Kg.

### STORAGE

Store the original and unopened packaging at a temperature between + 10°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	
Solid content in weight	-	%	63 ± 2	
Consumption (per layer)	-	gr/m <sup>2</sup>	300 ÷ 350	
Total final dry thickness (for 250 g/m <sup>2</sup> )	-	μ	~ 270	
Specific weight	EN ISO 2811-1	kg/l	~ 1,42	
Viscosity Brookfield LV	EN ISO 3219	mPa.s	40000 ± 8000	
Touch dry	I - 54 (internal)	hours	~1	
PERFORMANCE CHARACTERISTICS	Test method	Unit of measurement	Typical values	THRESHOLD VALUES according EN 1504-5
% Elongation at traction		%	≥200	
Capillary absorption and permeability to water	EN 1062-3	Kg/m <sup>2</sup> x h <sup>0,5</sup>	0,0073	< 0,1
CO <sub>2</sub> permeability (equivalent thickness)	EN 1062-6	m	218	S <sub>D</sub> > 50 m
Watervapour permeability (equivalent thickness)	EN ISO 7783-1	m	0,31 (class 1)	class 1: S <sub>D</sub> < 5 m
Bond strength by pull-off	EN 1542	N/mm <sup>2</sup>	> 1,5	For systems without traffic ≥ 0,8 N/mm <sup>2</sup> with traffic ≥ 1,5 N/mm <sup>2</sup>

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](http://www.tecnochem.it) where you can find the same technical data sheet updated in real time.

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