



Very
High
Durability
Repair &
Prevention
System




Certified Quality System since **FEBRUARY 1993**





From Project to Jobsite

Protective coating cycle for concrete

Tecnoriv AC 100 Ral (see colour chart)

PROTECTIVE COATING
AGAINST THE RISK OF PENETRATION

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

<i>Description</i>		Mono-component metacrylic coating, in solvent, charged with pigments and fillers, and rapid air-drying .
<i>Characteristics</i>		Good adhesion to cement based substrates. High coefficient of resistance against penetration of carbon dioxide. Optimal permeability to water vapour. Hard, satin film. Light stability. High resistance against aggressive elements in the atmosphere.
<i>Use</i>		Thin coating for the protection of concrete structures against aggressive atmosphere (carbonation) and exposed weather.
<i>Application</i>		<i>Tools</i> : by brush, short haired roller, or by spraying by airless with nozzle 18/23. <i>Application on</i> : Tecnoriv AC 100 primer <i>Temperature of application</i> : 5 ÷ 35 °C and relative humidity of max. 60% <i>Washing tools with</i> : solvents for acrylic based coatings

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 AC 100, in 2 layers, as follows:

- mix the product in the pail for 1-2 minutes with a suitable, low speed hand mixer;
- 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 +5°C .

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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



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APPLICATION CONDITIONS

Temperature substrate	+ 5°C / + 35°C
Humidity substrate	≤3%
Ambient Temperature	+5°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 24 Kg.

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	
Solid content in weight	-	%	60 ± 2	
Consumption (per layer)	-	gr/m ²	200 ÷ 250	
Total final dry thickness (for 250 g/m ²)	-	μ	~ 110	
Specific weight	EN ISO 2811-1	kg/l	~ 1,25	
Viscosity Brookfield LV	EN ISO 3219	mPa.s	3000 ± 600	
Touch dry	I - 54 (internal)	hours	~1	
PERFORMANCE CHARACTERISTICS	Test method	Unit of measurement	Typical values	THRESHOLD VALUES according EN 1504-5
Capillary absorption and permeability to water	EN 1062-3	Kg/m ² x h ^{0,5}	0,003	< 0,1
CO ₂ permeability (equivalent thickness)	EN 1062-6	m	265	S _D > 50 m
Watervapour permeability (equivalent thickness)	EN ISO 7783-1	m	1,63 (class 1)	class 1: S _b < 5 m
Bond strength by pull-off	EN 1542	N/mm ²	> 4	For systems without traffic ≥ 0,8 N/mm ² with traffic ≥ 1,5 N/mm ²

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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