

ACRIFLEX

FLEXIBLE, WATERPROOF RESIN PROTECTING AGAINST CARBONATATION FOR CONCRETE STRUCTURES



ACRIFLEX is waterproofing flexible protective coating based on acrylic resins in water emulsion. ACRIFLEX is an easy to apply product that protects concrete with a finishing smooth layer that withstand cracks thanks to its high flexibility. Its chemical and the water soluble formula guarantee the breathability of the product while enhancing the protective effectiveness against carbonation creating a protective coating which resists the rigours of time.

ADVANTAGES

- ✓ **HIGH FLEXIBILITY:** Coatings made with ACRIFLEX have excellent flexibility and crack-bridging ability also at low temperatures.
- ✓ **HIGH ADHESION TO CONCRETE:** ACRIFLEX has a great adhesion to concrete and cement based materials in general.
- ✓ **High FREEZ-TAW cycles resistance:** adhesion and flexibility of ELASTOPROOF withstand also very hard freeze thaw cycles and different weather conditions.
- ✓ **DE-ICING salts resistance:** ACRIFLEX has a high chemical resistance also to chlorides and saline water as those due to the use of de-icing salts.
- ✓ **UV AND CHEMICALLY AGGRESSIVE ENVIRONMENTS RESISTANCE:** ACRIFLEX has excellent resistance to all types of climatic conditions, aggression from smog and sunlight and forms of hard-wearing.
- ✓ **EASY TO APPLY:** It is very easy and quick to apply ACRIFLEX by brush, roller or sprayed by airless.

FIELDS OF APPLICATION

With **ACRIFLEX** it is easy to obtain jointless flexible waterproofing coatings ideal for:

- ✓ Protection of concrete structures.
- ✓ Protective finishing top coating to concrete repair works.
- ✓ Use on exposed concrete surfaces with a risk of cracking.

APPLICATION INSTRUCTIONS

Support cleaning

- 1) The surface to be treated must be dry, sound and perfectly clean. Remove all cement laitance, flaky parts and traces of powder, grease, oil and removing compounds by sand-blasting or washing down with high-pressure water.
- 2) Eliminate any traces of dirt or dust that could obstruct the adhesion of the product to the substrat.



Substrate preparation

- 3) Ensure you have obtained a sound, compact and coarse surface.
- 4) Any cracks, hole or other significant irregularity in the substrate must be fixed with FLUECO BLITZ or FLUECO 40T. If the concrete surface is spoiled and widely damaged a concrete repair work with one of the FLUECO and CONCRETE FINISHER products it is required before applying ACRIFLEX.
- 5) The application over existing coating must be evaluated by confirming their adhesion to substrate. Adhesion test average > 0,8 MPa with no single value below 0,5 MPa.

WARNINGS

Do not apply the product on very hot surfaces or when the temperature is below +5°C. in the presence of high humidity or fog or when rain is forecast. Do not dilute with solvents. Do not apply on concrete that has been cured for less than 28 days.

MIXING OF THE PRODUCT

ACRIFLEX is supplied ready to use. Stir thoroughly before application.

APPLICATION OF THE PRODUCT

Apply ACRIPRIMER evenly onto the substrate. After 30 minutes (at 20°C) but before the full setting time of the primer apply ACRIFLEX in two coats by brush, roller or airless spray.

PACKAGING AND STORAGE

- 20 kg drum

The product, in its original packaging and kept in a protected and temperate environment. The product maintains its characteristics for a year.



PRODUCT IDENTITY

CONSISTENCY OF THE PRODUCT	White or coloured liquid
PACKAGING	20 kg drum
DRY SOLIDS CONTENT-UNI EN 480-8	60%

APPLICATION DATA OF PRODUCT

DILUTION RATE	Max 10-15% off water
VISCOSITY - UNI EN ISO 3219	Approx 8850 mPa·s (spindle RV 6 - 100 rpm)
SETTING TIME	About 12 hours (20°C - 50% R.U.)
APPLICATION TEMPERATURE RANGE	+5 ÷ +40°C
MAXIMUM OPERATING TEMPERATURE	80°C
DENSITY OF THE MIX - EN ISO 2811	1,30 kg/m³
WAITING TIME BETWEEN EACH COAT	5 hours (20°C - 50 % R.U.)
CONSUMPTION	300÷400 g/m² per single coat 600÷800 g/m² recommended minimum

FINAL PERFORMANCE

UNI EN 1504-2 - COATING (C), PRINCIPLES PI (1.3) - MC (2.2)

PERFORMANCE CHARACTERISTIC	Test Method	Minimum Requirements	Performance Requirements
CRACK BRIDGING ABILITY (STATIC)	UNI EN 1062-7	Classes A1 (0.1 mm) to A5 (2.5 mm)	1.48 mm - class A4
CRACK BRIDGING ABILITY (DYNAMIC)	UNI EN 1062-7	Classes B 1 to B 4.2	B2
ELONGATION AT FAILURE	DIN 53504	Not required	> 80%
DIRECT TRACTION ADHERENCE TEST substrate MC (0.40) as specified in EN 1766	UNI EN 1542	$\geq 0.8 \text{ N/mm}^2$	1.2 N/mm ²
CAPILLARY ABSORPTION AND PERMEABILITY TO WATER	UNI EN 1062-3	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	0.041 kg/m ² · h ^{0,5}
PERMEABILITY TO WATER VAPOUR	UNI EN ISO 7783-2	Class I $S_0 < 5 \text{ m}$ (permeable to water vapour) Class II $5 \text{ m} \leq S_0 \leq 50 \text{ m}$ Class III $S_0 > 50 \text{ m}$	Thickness 200 µm: $S_0 = 1.2 \text{ m}$ (Class I)
PERMEABILITY TO CO ₂	EN 1062-6	$S_0 > 50 \text{ m}$	1.250 m
ADHESION AFTER THERMAL COMPATIBILITY - After freeze-thaw cycles with de-icing salt	UNI EN 13687-1	no bubbles, cracks and delamination Pull-off-test: flexible systems without trafficking; $\geq 0.8 \text{ N/mm}^2$	$\geq 0.8 \text{ N/mm}^2$
ADHESION AFTER THERMAL COMPATIBILITY - Thunder shower cycling (thermal shock)	UNI EN 13687-2		
ADHESION AFTER THERMAL COMPATIBILITY - Thermal cycling without de-icing salt impact	UNI EN 13687-3		
REACTION TO FIRE	UNI EN 13501-1	Euroclass	B s1 d0
ARTIFICIAL EXPOSURE TO ATMOSPHERIC AGENTS	UNI EN 1062-11	no blistering no cracking no flaking	Specification passed

Legal notice - SLCMP version dated 01.03.2017

In the technical specifications herein, Draco Italiana s.p.a. used the indicators therein specified, with the relevant standards.

Please check if this Sheet and the figures therein contained apply to the product batch you are interested in or if they have been overridden by any later release. If in doubt, check whether this Sheet matches the one applicable at the time of finalising the sales agreement, at www.draco-edilizia.it, and/or contact our Engineering Department.

No advice provided by our staff, either verbally or in writing at your request, about the potential applications of the Products shall be binding under the sales agreement or shall be considered an integral part of the agreement. Such advice is based on our experience and on the best available practical and/or scientific knowledge; as such, it shall not be binding or conditional on the buyer or user. Please try our products first to find out whether they are fit for your intended use or application; in any case, you shall be solely responsible for your choice.