

ACRIFLEX RAPIDO

One-component rapid setting water based waterproofing

Liquid one-component waterproofing ready to use, formulated with elastomeric resins. Applicable both inside and outside, in conditions of low temperature and high relative humidity level. Rapidity of film formation within 20 minutes after application. Flexible and resistant to crack bridging.

BENEFITS

- Suitable for all seasons, applicable at a temperature up to +1°C (+33.8°F) and relative humidity up to 98%.
- Rapidity of film formation after 20 minutes, also in environmental conditions of low temperature and high humidity.
- It allows to waterproof with a thickness of 1.5 mm (0.059 in).
- Resistant to crack bridging.
- Flexible to low temperature.
- Resistant to water logging and UV rays.
- Solvent free product.
- Easy and quick to apply.

APPLICATION FIELDS

This product is studied to waterproof planes and slopings coverings, terraces, balconies, waterspouts, flashings, cornices, vertical surfaces and other concrete products. *Acriflex Rapido* is also suitable to restoration of bituminous membranes, to waterproof tiles surfaces or wood supports. The product can be applied for waterproofing both inside and outside (bathrooms, kitchens, showers).

YIELD

2.0 kg/m² for 1.5 mm of thickness.

0.41 lb/ft² for 0.059 in of thickness.

COLOUR

White, grey, red, green, sand.

PACKAGING

25 kg (55.16 lb) plastic bucket.

Pallet: 25 kg: 48 buckets (1200 kg – 2647.68).

STORAGE

Store the product in its original containers perfectly closed, in well ventilated areas, away from sunlight and ice, at temperatures between +5°C (+41°F) and +35°C (+95°F).

Storage time: 12 months.

PREPARATION OF SUPPORT

The support must be completely hardened, dry and resistant enough. The surface must be thoroughly clean, well consolidated, without debris or detaching parts.

Before the application of product it is suggested to cover each element that should not be coated.

Potential cracks or detaching parts of the support, must be restored before the application of the product.

If applied on terraces and balconies, the support must have the right slope to guarantee the rainwater flow.

Concrete


In presence of damaged and crumbly concrete is predictable the restoration with mortar *Buildfix CLS* (see technical data sheet).

For a better adhesion to smooth concrete, on dry support (not humid) it is possible to use *Grip Primer* (see technical data sheet).

In presence of humid supports or subject to rising damp it is strictly necessary to use *WATstop* as a vapor barrier (yield: 0.6 kg/m², see technical data sheet).

SAFETY

For the handling always wear personal protective equipment and follow indications on the safety data sheet of the product.



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UNI EN 1504-2
Products and systems for the protection and
restoration of concrete structures –
Part 2 : Systems to protect concrete surfaces

Adhesion test – direct traction:	0,536 N/mm ² , break type A/B
Fire resistance:	class B – s2, d0



For application video, product page, safety data sheet.

Waterproofing - Liquid

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Products can be tested in a closed environment (lab) but job specific features of a project can effect the performance of these products from project to project.

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Technical Data		
Features		Units
Yield	2.0 kg/m ² for 1.5 mm of thickness.	kg/m ²
	0.41 lb/ ft ² for 0.059 in of thickness.	lb/ ft ²
Aspect	semi - dense	-
Colour	white, grey, red, green, sand.	-
Minimum thickness	1.5	mm
	0.059	in
Waiting time between 1 st and 2 nd coat (T=+23°C / +73.4°F; R.H. 40%)	4	hours
Application temperature	+1 / +35	°C
	+33.8 / +95	°F
Drying time (T= +23°C / +73.4°F; R.H. 40%)	4	hours
Storage	12 months in original container and in dry places	months
Packaging	25 kg (55.16 lb) plastic bucket	kg

Final performances		Units	Regulations	Results
Water impermeability	test passed	-	EOTA TR 003	waterproof
Wash-out resistance (up to +1°C / +33.8°F and R.U. of 98%)	20	min.	internal method	resistant
Fire resistance	class B – s2, d0	-	EN 13501-1	-
Break elongation	160 ± 10	%	ISO 527-1	-
Load resistance	1.4 ± 0.5	MPa	ISO 527-1	-
	203.05 ± 72.52	lbf/in ²	-	
Adhesion test – direct traction	0.536 77.74	N/mm ² lbf/in ²	EN ISO 1542 ASTM D4541	break type A/B
Weathering Test	2000*	hours	EN ISO 11507 ASTM D4587	resistant
Viscosity at 23°C	20000 ± 5000	cPs	EN ISO 2555	-
Dry extract	74 ± 2	%	EN ISO 3251	-

* 1680 of weathering test are equal to about 10 years. This equivalence is merely indicative and it may change depending on the climate and the place where the product is applied. The above data, even if carried out according to regulated tests are indicative and they may be change when specific site conditions vary.

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Coatings with tiles or mosaic

Existing flooring must be attached to the support (if not remove them and fill with cement mortar) and must not present on the surface traces of separating substances such as fats, waxes, oils, chemicals, etc. Given the wide variety of tiles on market, it is recommended to make a test to check the perfect adhesion of *Vaposhield* on the support.

Over coatings with tiles it is necessary to treat the support with *Grip Primer* (see technical data sheet) before application of the waterproofing product *Acriflex Rapido*.

Bituminous membrane

Ensure that the membranes has been applied for at least 6 months to avoid crawling due to the release of oils.

It is possible to apply directly *Acriflex Rapido* on a wet support (in case of fog and dew), not damaged. In case of damaged membrane, renovate it with sandwich system (*Acriflex Rapido* + *T.N.T.* + *Acriflex Rapido*).

Consider anyway the installation of special ventilation chimneys on the membrane appropriately positioned according to the humidity of the substrate. This measure is necessary in case of highly absorbent surfaces that hold moisture, such as lightened screeds with polystyrene or foamed clay.

For supports not mentioned in technical data sheet, contact the Diasen technical department.

MIXING

Acriflex Rapido is one-component, ready to use.

Mix the product well to obtain a homogeneous mixture, without clots. On very hot climatic conditions it is possible to dilute *Acriflex Rapido* with at max 5% of clean water.

Never add anti frost products, cement or aggregates

APPLICATION

1. Waterproof structural joints using *Safety-Joint Roll* (see technical data sheets) impregnated with *Acriflex Rapido* applied by brush, creating a tank effect.
2. Apply a first coat of *Acriflex Rapido* by brush, roll, squeegee or airless.

3. When the first coat of *Acriflex Rapido* is dry, apply a second coat of product, taking care to completely cover the surfaces, avoiding to leave holes. The minimum total thickness is equal to 1.5 mm (0.059 in).

Treatment of expansion joints

The joints can be treated before or after the application of the waterproofing.

Be careful to not fill joints with the waterproofing *Acriflex Rapido*.

Fill the joints with polyurethane sealant *Diaseal Strong* (see technical data sheet).

DRYING TIME

At +23°C (+73.4°F) and 50% of relative humidity level, the product drying time is 4 hours.

- The product resist to surface phenomenon of whitening and corrugation caused by high relative humidity, fog and dew after 20 minutes of application
- Complete drying times of *Acriflex Rapido* are influenced by environmental relative humidity level and temperature conditions and may change significantly.
- Once the product is dry, *Acriflex Rapido* make the surfaces walkable applying *Floorgum Paint* (see technical data sheet) or coated with other products of the Diasen's coating line.

SUGGESTIONS

- Do not apply at a temperature lower than +1°C (+33.8°F) or higher than +35°C (+95°F).
- Do not apply with imminent threat of rainwater or ice.
- Protect the product from rain, until that it is fresh to touch.
- During summer season apply the product during the cooler hours of the day, away from sun.
- It is very important to made regular expansion joints on the screed to avoid cracks in the coating. The joints must be performed in a workmanlike manner to prevent the occurrence of water infiltration.

CLEANING

Wash tools with water before product hardens.

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