

ACRIFLEX RAPIDO

One-component water based waterproofing with high-speed drying

Liquid and ready to use waterproofing, formulated with elastomeric resins that can be applied outside, in case of low temperature and of high relative humidity level. Flexible, crack bridging and stagnant water resistant after a few hours from application. It is suitable for concrete-asbestos encapsulation, according to the current regulations in force.

BENEFITS

- Applicable at temperature up to +1°C (+33.8°F) and relative humidity up to 98%.
- Quick film formation after 20 minutes, even in conditions of low temperature and high humidity.
- Waterproofs with low thickness.
- Flexible at low temperatures.
- Provide a joint less and uniform coat, adaptive to complex geometrical shapes of the support.
- UV-rays resistant, resistant to weather conditions, industrial and marine environments.
- Good consolidation and asbestos' fibres fixation properties.
- Possibility to continue indoors' activities during the whole remediation process.
- Solvent free product.
- Ready to use, easy and quick to apply.

YIELD

2.0 kg/m² (0.41 lb/ft²) in 2 coats if used as waterproofing.

1.0 kg/m² (0.21 lb/ft²) in 2 coats if used for asbestos encapsulation.

COLOUR

White and grey.

APPLICATION FIELDS

This product is studied to waterproof flat and sloped concrete coverings, terraces, balconies, waterspouts, flashings, eaves, foundation walls, fiber cement panel, bathrooms, shower stalls, kitchens and wet areas. *Acriflex Rapido* is also suitable to waterproof or restore bituminous membranes in combination with *SBS-Bond* (see technical data sheet).

The product can be applied on existing floor or metal surfaces in combination with *Grip Primer* (see technical data sheet).

Acriflex Rapido is also suitable for asbestos encapsulation, in particular:

- type A – exposed to the exterior;
- type B – exposed to the interior;
- type C – not exposed.

PACKAGING

20 kg (44.09 lb) plastic bucket.

Pallet: n° 48 buckets (960 kg – 2116.44 lb).

STORAGE

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

Storage time: 12 months.

PREPARATION OF SUPPORT

The substrate must be completely hardened and resistant enough. The surface must be carefully clean, dry, well consolidated, without oils, greases, debris, detaching parts or any other material that might compromise the product adhesion.

When the surface is friable, scarify totally until the obtainment a good support, correct lesions or deteriorated areas with proper mortar.



Diasen srl

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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/mm²,
break type A/B.



For application video,
product page, safety data
sheet and other information.

Waterproofing - Liquid

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should be considered as indicative only and should be confirmed by exhaustive practical applications. Diasen doesn't know the peculiarity of the processing, or the characteristics of the support. Therefore the applicator should carry out preliminary tests, in order to verify the suitability to the foreseen application, and in any case he will take the responsibility of the intended use. In case of uncertainties or doubts, please contact the company's technical department, provided that this is only a simple assistance for the applicator: he should have the appropriate capabilities and experience in order to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.

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Technical Data		
Features		Unit
Yield	2.0 kg/m ² (0.41 lb/ft ²) in 2 coats if used as waterproofing. 1.0 kg/m ² (0.21 lb/ft ²) in 2 coats if used for asbestos encapsulation.	kg/m ² - lb/ft ²
Aspect	semi - dense	-
Colour	White and grey.	-
Minimum thickness	1.5 0.059	mm in
Waiting time between 1 st and 2 nd coat (T=+23°C/+73.4°F; R.H. 50%)	4	hours
Application temperature	+1 / +35 +33.8 / +95	°C °F
Drying time (T= +23°C/+73.4°F; R.H. 50%)	4	hours
Storage	12	months
Packaging	20 kg (44.09 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 98%R.H.)	20	min.	internal method	-
Break elongation	160 ± 10	%	ISO 527-1	-
Load resistance	1.4 ± 0.5 203.05 ± 72.52	MPa lbf/in ²	ISO 527-1	-
Adhesion test – direct traction on concrete	0.536	N/mm ²	EN ISO 1542	break type A/B
	77.74	lbf/in ²	ASTM D4541	
Weathering test	1680 hours (10 years*)	hours / years	EN ISO 11507 ASTM D4587	-
Viscosity at 23°C/ 73.4°F	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 according to climate conditions of the place where the product will be applied.

The above data, even if carried out according to regulated tests are indicative and they may change when specific site conditions vary.

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One-component water based waterproofing with high speed drying

The humidity on the support and the steam that creates the irradiation may compromise the adherence of the applied products.

In case of water cleaning, wait that the support is completely dry.

Concrete

For new concrete floors, it must be sufficiently dry.

In case of damaged or crumbly concrete, restore it with suitable cement mortar.

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

On moist supports, in order to prevent blistering or detaching phenomena, use *Vapostop* (see technical data sheet) as primer.

If the support is subjected to rising damp, it is strictly necessary the use of *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks.

On raw concrete is recommended to use *Vapostop* (see technical data sheets) primer.

Bituminous or slated membrane

Verify that the membrane has been applied for at least 6 months to avoid detachments caused by the release of oils.

Verify the membrane sheet are well attached one to the other, if not paste them with flame system.

Restore eventual cuts and holes, if present.

Clean carefully the membrane by removing paints and no properly attached protective coats.

Consider anyway the installation of appropriate ventilation chimneys, placed according to the humidity of the substrate. This measure is necessary in case of highly absorbent supports that hold moisture, such as lighten screeds with polystyrene or expanded clay.

SBS-bond must be used as primer for membranes (see technical data sheet).

In case of damaged membrane, restore it with the sandwich systems (*Acriflex Rapido* + *Polites T.N.T.* + *Acriflex Rapido*) after the use of *SBS-bond* primer. Sandwich system has to be used on joints between membrane sheets and where the membrane is more stressed.

Smooth or tiled surfaces

Old floorings must be attached to the support (otherwise remove them and fill with concrete mortar) and do not present on the surface traces of detaching substances like greases, oils, chemical products etc.

Waterproofing - Liquid

After carefully clean tiled surface, it must be treated with *Grip Primer* (see technical data sheet) before the application of *Acriflex Rapido*.

Use *WATstop* (see technical data sheet) for filling tile joints and create a perfect smoothed surface. *WATstop* must be used also in case of moisture of the support or rising damp.

According to the wide range of tiles that can be found on the market, it is recommended to perform a test, in order to verify the correct product adhesion.

Metal

Clean carefully dirt and eventual non adhered paints.

Before the application of *Acriflex Rapido*, treat the metal surface with *Grip Primer* (see technical data sheet).

If the metal surface is painted, it is recommended to perform an adhesion test to verify the suitability of the application.

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

Treatment of expansion joints

Before proceeding with the waterproofing intervention, it's necessary to predispose, at regular intervals, appropriate expansion joints.

This type of joints divides the screed surface in smaller areas such that it allows the differential movements (generated by variation in the environmental conditions or concrete maturation phenomena) among these latter. Expansion joints must be done carefully in order to avoid water infiltrations. The designer must evaluate the size of the areas and its realization modality according to the substrate conditions.

Joints must be filled with the polyurethane sealant *Diaseal Strong* (see technical data sheet).

Realize a shell in the wall-to-floor corner with the same *Diaseal Strong* product. Once the sealant has completely dried, the corners must be waterproofed with *Safety Joint Roll* (see technical data sheet) impregnated with *Acriflex Rapido*, applied by brush creating a continuous surface.

Apply *Diaseal Strong* also in the contact points with doors and windows.

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One-component rapid setting water based waterproofing

MIXING

Acriflex Rapido is a one-component and ready to use product. Mix the product until obtaining a homogeneous mixture. In case of extremely hot climatic conditions it is possible to dilute *Acriflex Rapido* with at max 5% of clean water and to continue mixing.

Never add other substances to the mixture.

APPLICATION

1. Wait until primer used is completely dry and apply a first coat of *Acriflex Rapido* by brush, roll, water squeegee or airless.
2. When the first coat is dry, apply a second one, crossing the coats and taking care to completely cover the entire surface. In case of rain, please verify the effective drying of the product before moving to the next coat.
3. Continue the application in subsequent coats until reaching the expected yield and a minimum total thickness of 1.5 mm to guarantee the waterproofing properties.

Asbestos encapsulating system

All the operations of the encapsulating cycle must be executed respecting the regulation in force.

1. To impregnate the surface, apply an *Acriflex Primer* coat, by roll or airless (see technical data sheet).
2. Once the primer is completely dry, apply a first coat of *Acriflex Rapido* by roll, airless or water squeegee. In case of rain, please verify the effective drying of the product before moving to the next coat.
3. When the first coat is dry, apply a second one with the same method, crossing the coats and taking care to completely cover the entire surface. In order to have a total coverage of the support, apply 2 coats in different colours.

It must be respected the following thicknesses depending on the type of encapsulation:

- **type A** - total average thickness = 0.30 mm;
minimum thickness = 0.25 mm.
- **Type B** - total average thickness = 0.25 mm;
minimum thickness = 0.20 mm.
- **Type C** - total average thickness = 0.20 mm.
minimum thickness = 0.20 mm.

DRYING TIME

At +23°C (+73.4°F) and 50% of relative humidity level, the product completely dries in about 4 hours.

- The product resists to superficial phenomena of whitening and corrugation caused by high relative humidity, fog and dew after 20 minutes of application.
- Complete drying time of *Acriflex Rapido* is influenced by environmental relative humidity level and temperature conditions and may change significantly.
- If applied with a yield higher than expected, drying time can significantly increase.
- Once the product is dry, *Acriflex Rapido* can be made walkable by applying *Floorgum Paint* (see technical data sheet) or can be coated with other products of the Diasen coating product line.

SUGGESTIONS

- The appearance of the first coat defines the necessity of a new encapsulating cycle.
- Do not apply at 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.
- During summer season apply the product in the cooler hours of the day.
- Protect the product from pouring rain until it is completely dry.
- Before applying the product, is recommended to cover every element that must not be coated.

CLEANING

Wash tools with water before product hardens.

SAFETY

While handling, always wear personal protective equipment and respect indications described in the safety data sheet of the product.

Waterproofing - Liquid

