

WATERPROOFING - liquid

ACRIFLEX PRO

One-component water-based waterproofing, resistant to water stagnation

Liquid waterproofing made of elastomeric resins of latest generation and nanoparticles, ready to use and resistant to water stagnation. The product has high elasticity even at low temperatures and it is suitable for concrete-asbestos encapsulation, according to the current regulations. Available in different colours, it can be left at sight, thanks to the UV-rays resistance.

BENEFITS

- Formulated with structured acrylic polymers which combines high water resistance and excellent mechanical performances.
- Flexible in low temperatures up to -25°C (-13°F).
- Provide waterproofing with small thicknesses.
- It can be left at sight and is walkable for a normal manutention.
- Provide a jointless 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.
- Ready to use, easy and quick to apply.
- Solvent free product.

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

Acriflex Pro is suitable to waterproof vertical or sloped concrete surfaces like coverings, terraces, balconies, waterspouts, flashings, eaves, foundation walls, fiber cement panel, bathrooms, shower stalls, kitchens and wet areas. *Acriflex Pro* is also suitable to restore bituminous or slated membranes in combination with *SBS-Bond* (see technical data sheet) primer according to the conditions of the membrane itself.

Acriflex Pro in combination with *Grip Primer* (see technical data sheets) can be applied on existing floors and on metallic surfaces.

Acriflex Pro is also suitable for wood surfaces waterproofing.

The product is 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: 48 buckets (960 kg – 2116.44 lb).

STORAGE

The product must be stored in its original containers well closed, in well ventilated areas, away from sunlight, water and ice, at temperature between +5°C (41°F) and +35°C (95°F).

Storage time: 12 months.



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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.

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DIASEN
GREEN BUILDING FUTURE

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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.	-
Dilution	5% of clean water if necessary	-
Minimum thickness of fresh product	1.5	mm
Waiting time between 1 st and 2 nd coat (T = +23°C / +73.4°F; R.H. 50%)	4	hours
Application temperature	+5 / +35 +41 / +95	°C °F
Drying time (T = +23°C / +73.4°F; R.H. 50%)	4	hours
Storage	12	Months

Final performances		Unit	Regulation	Result
Water impermeability	Test passed	-	EOTA TR 003	waterproof
Flexibility at low temperature	- 25	°C	-	-
Break elongation	200 ± 10	%	ISO 527-1	-
Load resistance	1.5 ± 0.5 217.56 ± 72.52	MPa = N/mm ² lbf/in ²	ISO 527-1	-
Adhesion test for direct traction on concrete	0.5 72.52	N/mm ² lbf/in ²	EN 1542	break type A/B
Weathering Test	1680 hours (10 years*)	hours / years	EN ISO 11507	resistant
Viscosity at 23°C / 73.4°F	18000 ± 5000	cPs	EN ISO 2555	-
Dry extract	72 ± 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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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.

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) as waterproofing in counterthrust.). *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 Pro* + *Polites T.N.T.* + *Acriflex Pro*) 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.

Masonry

Clean the surface by scouring, if necessary.

Check the masonry's conditions; repair the damaged bricks and the damaged or not well fixated stones.

Use a filling mortar on supports to regularize.

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.

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

Use *WATstop* (see technical data sheets) 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 Pro*, 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.

Wood

Carefully clean the surface and eliminate all the dust, the friable parts as well as the detaching flakes. The wood must be completely dry and coherent.

On non-treated wood supports, proceed with a direct application of the product.

In every other case is recommended to execute a preliminary test to check the adhesion properties.

On boarding, parquet floorings or high jointed supports is requested a sandwich system (*Acriflex Pro* + *Polites TNT* + *Acriflex Pro*) in order to enforce *Acriflex Pro*.

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For supports not mentioned in this 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 Pro*, applied by brush creating a continuous surface.

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

MIXING

Acriflex Pro is a one-component and ready to use product. Mix it until obtaining a homogeneous mix. In extremely hot conditions it is possible to add 5% of clean water and to continue mixing.

Do not add other substances to the product.

APPLICATION

1. Wait until primer used is completely dry and apply a first coat of *Acriflex Pro* by brush, roll, water squeegee, airless or smooth steel trowel.
2. When the first coat is dry, apply a second coat of product, 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 Pro* by roll, airless, brush or water squeegee. In case of rain, please verify the effective drying of the product before moving to the next coat.
3. Apply a second coat 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% relative humidity, the product completely dries in about 4 hours.

- Drying time is influenced by temperature and environmental relative humidity and it may significantly change.
- If applied with a yield higher than expected, drying time can significantly increase.
- When *Acriflex Pro* is dry, it can be left at sight or it can be made walkable applying *Floorgum Paint* (see technical data sheet) or it can be coated with other Diasen coating products.

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SUGGESTIONS

- The appearance of the first coat defines the necessity of a new encapsulating cycle.
- Do not apply with environmental temperatures or support temperatures lower than +5°C (+41°F) and higher than +35°C (+95°F).
- During summer season apply the product in the cooler hours of the day.
- Do not apply with imminent threat of rain or ice, with dense fog condition or relative humidity of 70% or more.
- 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 the product hardens.

SAFETY

While handling, always use personal protective equipment and respect the instructions described in product safety data sheet.

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