WATERPROOFING- liquid

ACRIFLEX X-PRO

One-component water based waterproofing, resistant to water stagnation, fibre-reinforced and walkable

Liquid and ready to use waterproofing, made of elastomeric resins and high elastic modulus fibres, resistant to water stagnation and walkable. Also applicable by roll and flexible to low temperatures. *Acriflex X-Pro* is available in different colours, it resists to weathering agents and it can be left at sight. It creates a continuous waterproofing, even under tiles.

BENEFITS

- Special formula able to lend to the product high resistance to water stagnation and high elastic modulus.
- Fibre-reinforced, it does not need reinforcement armour.
- Walkable, it can be left at sight.
- Tiles can be directly glued on *Acriflex X-Pro*.
- Flexible at low temperatures.
- Crack bridging resistance.
- It allows to waterproof with low thickness.
- It creates a continuous layer without joints and it suits also to complex support structures.
- Ready to use, easy and quick to apply.
- It resists to UV rays, to weathering agents and to marine and industrial environments.
- Solvent free product.

APPLICATION FIELDS

Acriflex X-Pro is suitable to waterproof concrete flat or sloped coverings, roof structures, terraces, balconies, flashings, waterspouts, eaves, chimneys, foundation walls, walls, fibre-cement sheets, internal areas like bathrooms, shower boxes, kitchens and wet areas. The product is also suitable to waterproof and to restore smooth bituminous membranes or slated membranes, in combination with the primer *Eposint* or *SBS-bond* (see technical data sheet) in relation to the conditions of the membrane itself.
Acriflex X-Pro can be applied on existing floorings or on metal surfaces in combination with *Grip Primer* (see technical data sheet).
*Acriflex X-*Pro is also suitable to waterproof wooden surfaces.
When *Acriflex X-Pro* is dry, tiles can directly be glued on it with a good adhesive for outdoor.

COLOUR

White, grey and red.

YIELD

2.0 kg/m^2 in 2 coats.

PACKAGING

5 kg or 20 kg plastic bucket.
Pallet: - 5 kg bucket - 20 boxes - 4 buckets each - (400 kg).
- 20 kg plastic bucket - 48 buckets (960 kg).

STORAGE

Store the product in its original containers well closed, in well ventilated areas, away from sunlight, water and ice, at temperatures 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 thoroughly clean, dry, without oils, greases, debris or detaching parts or other materials that may compromise the product adhesion.
If the support is crumbly in its entirety, totally scrape it until obtaining a good support and restore lesions or damaged parts with suitable mortar.
Potential humidity and the vapour caused by radiation can compromise the adhesion of the applied products.
In case of hydro-cleaning, wait for the complete drying of the support.

NON TOXIC

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

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Technical Data

Features		Unit
Yield	2.0 kg/m^2 in two coats	kg/m^2
Aspect	Semi-solid	-
Colour	White, grey and red	-
Mixing water	If necessary 5%	-
Minimum thickness	1.7	mm
Waiting time between 1st and 2nd 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
Packaging	5 or 20 kg plastic buckets	kg

Final performances		Unit	Regulations	Results
Resistance to water penetration	Test passed	-	EOTA TR 003	waterproof
Flexibility to cold	- 25	°C	Internal method	-
Break Elongation	90 $\pm$ 10	%	ISO 527-1	-
Load resistance	4.0 $\pm$ 0.5	MPa	ISO 527-1	-
Adhesion test for direct traction on concrete	0.5	N/mm^2	EN 1542	Break type A/B
Weathering Test	1680 hours (10 years*)	hours	EN ISO 11507	Resistant
Viscosity at 23°C/ 73.4°F	20000 $\pm$ 5000	cPs	EN ISO 2555	-
Dry extract	73 $\pm$ 2	%	EN ISO 3251	-

* 1680 hours of weathering test correspond to about 10 years. This correspondence is merely indicative and it may considerably vary according to climatic conditions where the product will be used.

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

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Concrete

In case of new realised cement substrate this must be sufficiently cured.

In presence of lesions, holes or irregular zones, restore them with suitable cement mortar.

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

On moist support, to avoid blistering or detachment phenomena, it is recommended the use of *Vapostop* (see technical data sheet) as primer.

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

On rough concrete, use the primer *Vapostop* (see technical data sheet).

Smooth or tiled surfaces

Make sure that the tiles are well attached to the support, otherwise remove them and restore them with a suitable cement mortar. The tiled surfaces must not present traces of detaching substances like greases, oils, chemical products etc.

Carefully clean the support and treat the surface with *Grip Primer* (see technical data sheet).

To fill joints between tiles and to create a perfectly levelled surface, apply *WATstop* (see technical data sheet). *WATstop* must be used even if the support is moist or if is affected by rising damp.

According to the wide range of tiles that can be found on the market, it is recommended to perform a test to verify the perfect adhesion of the system.

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.

Make sure that the overlaps are well attached; in case of detachments, weld them again with hot systems.

Restore potential holes or cuts, if present.

Carefully clean the membrane by removing potential varnishes or protective layers not well attached.

Consider 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

Membranes that are worn-out or painted with varnishes well attached to the support must be treated with the primer *Eposint* (see technical data sheet).

In all other cases, use the primer *SBS-bond* (see technical data sheet).

In case of damaged membrane, restore it with sandwich system (*Acriflex X-Pro + Polites T.N.T. + Acriflex X-Pro*) after having treated the surface with the primer.

The sandwich system must be used at overlaps or at those points where the membrane is more stressed.

Masonry

If necessary, clean the surface with brushing. Control the condition of the masonry; restore damaged or not well attached bricks or stones.

Metal

Thoroughly clean the surface by removing the dirt and potential varnishes not well attached.

Before the application of *Acriflex X-Pro*, treat the metal surfaces with *Grip Primer* (see technical data sheet).

In case of rust, before the application of *Grip Primer*, treat the surface with *Rust Converter* (see technical data sheet).

If the metal surface is painted, it is recommended to carry out a test to verify the perfect adhesion of the system.

Wood

Carefully clean the surface by removing dust, crumbly and detaching parts. The wood must be completely dry, well resistant and stable.

On not treated wood surfaces, *Acriflex X-Pro* can directly be applied.

In all other cases, perform a preliminary test to verify the adhesion.

On wooden surfaces, matchboarding or on supports with many joints, reinforce *Acriflex X-Pro* with sandwich system (*Acriflex X-Pro + Polites TNT + Acriflex X-Pro*).

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

Treatment of joints

Expansion, control or insulation joints can be treated before or after the application of the waterproofing.

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

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In the corner wall- floor it will be created a cove base, with the same product *Diaseal Strong*. When the sealant is dry, connection points must be waterproofed with the tape *Safety Joint Roll* (see technical data sheet), impregnated with *Acriflex X-Pro*, applied by brush, creating a tank effect.
Treat points in contact with doorsteps or with windows with the sealant *Diaseal Strong.*

MIXING

Acriflex X-Pro is ready to use; before the application, it is recommended to mix it in order to make the product homogeneous. In extremely hot climatic conditions, it is possible to add 5% of clean water and keep mixing.
Never add other substances to the product.

APPLICATION

1. Wait for the complete drying of the primer used and apply a first layer of *Acriflex X-Pro* by roll, smooth steel trowel, rubber spatula, water squeegee, airless machine or by brush.
2. When the first layer is dry, apply a second coat of product to cross, completely covering the surface. Apply next layers until reaching the expected yield and with a minimum total thickness of 1.7 mm. In case of rain over not completely dry product, carefully verify the suitability of the next covering.
3. When *Acriflex X-Pro* is dry, it can be left at sight or it can be tiled. Glue tiles on *Acriflex X-Pro* with a cement adhesive C2 class or higher class with improved performances. Before applying the tiles, wait for about 48 hours (at 23°C/ 73.4 °F and 50% relative humidity).

DRYING TIME

At a temperature of 23°C/ 73.4°F and 50% relative humidity, the product dries in about 4 hours.
• Drying time is influenced by temperature and by environmental relative humidity and may significantly change.
• If applied in higher amount than the expected one, drying time can significantly increase.
• Once dry, *Acriflex X-Pro* can be left at sight, it can be coated with tiles or its surface can be made anti-slip by covering it with *Floorgum Paint* (see technical data sheet).

SUGGESTIONS

• Do not apply at environmental temperature or at support temperature 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, away from sunlight.
• Do not apply with imminent threat of rain or ice, in condition of strong fog or in case of relative humidity level higher than 70%.
• Protect the product from pouring rain until the complete drying.
• It is very important to make, at regular intervals, appropriate expansion joints on the screed.
• Before the product application, it is recommended to cover each element that will not be coated.

CLEANING

Wash tools with water before product hardens.

SAFETY

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

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