ACRIFLEX X-PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

Ready-to-use waterproofing liquid, based on elastomeric resins and high-elastic modulus fibres. *Acriflex X-Pro* is resistant to water stagnation, pedestrian-friendly and flexible at low temperatures, while being applicable by roller. It is available in several colours, it is weather and UV rays resistant, and it can be left exposed. *Acriflex X-Pro* creates a continuous waterproofing layer even under tile floors.

BENEFITS

- Special formula able to lend to the product high resistance to water stagnation and high elastic modulus.
- Fibre-reinforced, thus not in need of a reinforcement armour.
- Walkable, it can be left exposed.
- Tiles can be attached directly to *Acriflex X-Pro*, in accordance with EN 14891.
- Flexible at low temperatures.
- Crack bridging resistance.
- Waterproofing achieved with low thicknesses.
- It creates a continuous layer without joints, while adapting to complex support geometries.
- Ready to use, easy and quick to apply.
- Resistant to UV rays, weathering agents, and marine and industrial environments.
- *Solvent free* product.

YIELD

2.0 kg/m^2 (0.41 lb/ft^2) in 2 coats.

COLOUR

White, grey and red.

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)

APPLICATION FIELDS

Acriflex X-Pro is suitable for waterproofing flat or inclined concrete sheds, roofs, terraces, balconies, flashing, flashing, eaves, cornices, chimneys, foundation walls, walls, fibrocement slabs, as well as for indoor environments such as bathrooms, shower cubicles, kitchens and wet areas. The product is also suitable for waterproofing and the restoration of smooth bituminous or slate membrane in combination with *SBS-bond* (see technical data sheet). *Acriflex X-Pro* can be applied on existing floors or metal surfaces in combination with the product *Grip Primer* (see technical data sheet). *Acriflex X-Pro* is also appropriate for waterproofing wooden surfaces. After drying time, the tiles can be glued to *Acriflex X-Pro* with a good outdoor adhesive.

STORAGE

The product must be stored in the original containers, perfectly closed, in well-ventilated environments, away from sunlight, water and frost, at temperatures between +5°C and +35°C.
Storage time: 12 months

CE EN 14891 CE EN 1504-2 EPD® THE INTERNATIONAL EPD® SYSTEM CONTRIBUTES TO LEED® VOC FREE

DIASEN GREEN BUILDING FUTURE
DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website.

ACRIFLEX PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

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. Before applying the product, it is recommended to protect all those elements that should not be covered by the product.
If the product is applied on balconies and terraces, the support must have the inclination necessary for the water to drain.

Concrete

In the case of newly built cementous substrate, it must be sufficiently cured. If injuries, holes or irregular areas are present on the substrate, restore them with suitable cement mortar. For a better adhesion on smooth, non-wet concrete it is recommended the use of *Grip Primer* (see technical data sheet). On moist supports, in order to avoid blistering or detachment phenomena, use *Vapostop* (see technical data sheet) as a primer. If the support is subject to rising damp, it is necessary to use *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks or loopholes. On rough concrete use *Vapostop* (see technical data sheet).

Bituminous or slated membrane

Verify that the sheath 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 special ventilation chimneys on the membrane, suitably dislocated according to the humidity of the background. This measure is necessary in case of highly absorbent supports that hold moisture, such as lighten screeds with polystyrene or expanded clay. Membranes should be treated with the *SBS-bond* primer (see technical data sheet). In case of damaged membranes, restore them with a sandwich system (*Acriflex X-Pro + Polites TNT + Acriflex X-Pro*) after priming the surface. The sandwich system shall be used at the overflows and points where the sheath is most stressed.

Smooth or tiled surfaces

Ensure that the tiles are well attached to the support otherwise remove them and restore them with suitable cement mortar. The tiled surface must not contain traces of release substances such as fats, waxes, oils, chemicals, etc. After having thoroughly cleaned the support, the surface must be treated with *Grip Primer* (see technical data sheet). To fill the joints between the tiles and create a perfectly level surface, apply the product *WATstop* (see technical data sheet). *WATstop* should also be used if the support is damp or affected by rising dump. Given the wide variety of tiles on the market, it is recommended to perform a test to verify the perfect adhesion of the system.

Metal

Thoroughly clean the surface eliminating dirt and any paints not well adhesive. Before applying *Acriflex X-Pro*, prime the metal surfaces with *Grip Primer* (see technical data sheet). If the metal surface is painted, it is recommended to verify the perfect adhesion of the system. For supports not present in the technical sheet contact the technical office Diasen.

Wood

Thoroughly clean the surface eliminating dust,

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website.

ACRIFLEX PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

crumbly parts and detaching flakes. Wood must be completely dry, well cohesive and dimensionally stable. On untreated wooden supports, directly proceed with the *Acriflex X-Pro* application. In all the other cases, first carry out a preliminary test to verify adhesion. On boards, beads or supports with high number of joints, reinforce Acriflex X-Pro with a sandwich system (*Acriflex X-Pro* + *Polites TNT* + *Acriflex X-Pro*). For supports not present in the technical sheet contact the technical office Diasen.

Treatment of joints and connections

Expansion, control and isolation joints must be treated before the application of the waterproofing agent. Joints should be filled with the polyurethane sealant *Diaseal Strong* (see technical data sheet). In the wall – floor corner an internal corner profile should be created with the very same product, *Diaseal Strong.* When the sealant has dried, the connections must be waterproofed with the tape *Safety Joint Roll* (see technical data sheet*)* impregnated with *Acriflex X-Pro*, the latter applied by brush, thus creating a tank effect. Contact points in doorsteps and windows corners shall also be treated with the sealant *Diaseal Strong*.

MIXING

Acriflex X-Pro is ready to use. Before application it is recommended to mix it well in order to make the product homogeneous. In extremely hot weather conditions, it is possible to add 5% clean water and continue mixing. Never add extraneous components to the product.

APPLICATION

1. Wait for the complete drying of the primer used and apply a first layer of *Acriflex X-Pro* by short-hair 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 exposed 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).

Acriflex X-Pro can be applied with **Graco TexSpray Mark V** airless machine. Dilute the product with 10 percent clean water, set the machine pressure to 150 bar and use nozzles 427 or 527.

DRYING TIME

At a temperature of 23 °C / 73.4 °F and 50% relative humidity, the product completely 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 exposed, 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.

DIASEN GREEN BUILDING FUTURE
DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website.

ACRIFLEX PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

- After drying, the *Acriflex X-Pro* product can be coated with Diasen coatings to increase durability, walkability and reduce dirt pick-up.
- It is very important to arrange special expansion joints at regular intervals, in the screed. The joints must be executed to perfection Before the product application, it is recommended to cover each element that will not be coated screed. The joints must be executed to perfection Before the product application, it is recommended to cover each element that will not be coated.

CLEANING

The equipment used can be washed with water before hardening of the product.

SAFETY

During handling, always use personal protective equipment and follow the product safety data sheet

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website.

ACRIFLEX PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

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

Technical Data*

Features		Unit
Yield	2.0 kg/m^2 (0.41 lb/ft^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	°C
	+41/+95	°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

** 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.

Final performances		Unit	Regulations	Results
Resistance to water penetration	Test passed	-	EOTA TR 003 EN 14891	waterproof
Flexibility to cold	- 25	°C	Internal method	-
Break Elongation	90 ± 10	%	ISO 527-1	-
Load resistance	4.0 ± 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 ± 5000	cPs	EN ISO 2555	-
Dry extract	73 ± 2	%	EN ISO 3251	-

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website

ACRIFLEX PRO

Water-based monocomponent, resistant to water stagnation, fibro reinforced and walkable

Indoor Air Quality (AIQ) Certification		
Evaluation of the results		
Regulation or protocol	**Version of regulation or protocol**	**Conclusion**
French VOC Regulation	Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 DEVL1133129A)	ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)
French CMR components	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)	Pass
Italian CAM Edilizia	Decree 11 October 2017 (GU n.259 del 6-11-2017)	Pass
AgBB/ABG	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes, ABG May 2019, AgBB August 2018	Pass
Belgian Regulation	Royal decree of May 2014 (C-2014/24239)	Pass
EMICODE	April 2020	EC 1 PLUS
Indoor Air Comfort®	Indoor Air Comfort 7.0 of May 2020	Pass
Indoor Air Comfort GOLD®	Indoor Air Comfort GOLD 7.0 of May 2020	Pass
Blue Angel (DE-UZ 113)	DE-UZ 113 for "Low-Emission Floor Covering Adhesives and other Installation Materials" (Version January 2019)	Pass
BREEAM International	BREEAM International New Construction v2.0 (2016)	Exemplary Level
BREEAM® NOR	BREEAM-NOR New Construction v1.2 (2019)	Pass
LEED®	"Low-Emitting Material" according to the requirements of LEED v4.1	Pass
CDPH – Classroom scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass
CDPH – Office scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

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, 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 to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com website