Elastic fibre-reinforced cementitious liquid waterproofing.

Two-component, water-based liquid and fibre-reinforced waterproofing membrane, formulated with acrylic resin and cement, to be used even in case of low temperature (+5°C/ 41°F). Suitable to waterproof terraces, flat coverings, walkable surfaces, parking lots, swimming pools, tanks, foundations, flashings, expansion joints and to restore old bituminous or slated membranes. Thanks to polypropylene fibres, it can be applied without the use of a reinforcement mesh.

BENEFITS

- · High resistance to traction.
- Excellent elasticity.
- It can be applied on existing floor together *Grip Primer* (see technical data sheet).
- Tiles can be directly glued on *Acriflex Fybro*, in accordance with EN 14891.
- It can be made walkable by using Floorgum Paint (see technical data sheet) or suitable for vehicles transit by using Floorgum Tyre Mono (see technical data sheet).
- It does not need a reinforcement mesh.
- Solvent free product.
- Ready to use, easy and quick to apply.

YIELD

2.00 kg/m² (0.41 lb/ft²) for 2 mm thickness.

COLOUR

Grey.

PACKAGING

25 kg (55.11 lb) plastic bucket. Each bucket contains 2 components (A+B) already dosed, to be mixed.

- \circ Part A = 16.75 kg (36.93 lb)
- \circ Part B = 8.25 kg (18.18 lb)

Pallet: 48 buckets (1200 kg).

APPLICATION FIELDS

Product designed to waterproof flat or sloped coverings, terraces, balconies, eaves, flashings, cornices, foundation walls, vertical walls and tanks. Acriflex Fybro is also suitable to restore old bituminous or slated membranes in good conditions and to waterproof tiled surfaces. The product can be used to waterproof both outdoor (bathrooms, kitchens, shower).

STORAGE

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

Storage time: 12 months.

PREPARATION OF SUPPORT

The support must be completely hardened and resistant enough. The surface must be thoroughly clean, dry, well consolidated, without debris or detaching parts and perfectly levelled. Before the product application, it is recommended to cover each element that must not be coated. Potential lesions or damaged parts of the support must be restored before the application of the product. If applied on terraces or balconies, the support must have the adequate slope to allow the down flow of the water.















THE INTERNATIONAL EPD® SYSTEM



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Concrete

In case of new realized cement substrate, this must be completely cured. Restore damaged or crumbly concrete with the ideal cement mortar. To obtain a better adhesion on non-wet smooth concrete, it is possible to use *Grip Primer* (see technical data sheet). On damp support, in order to avoid blistering or detachment phenomena, use *Vapostop* (see technical data sheet) as primer. *Vapostop* can be used on rough concrete as well. In case of rising humidity, it is necessary to use *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks or loopholes.

Bituminous or slated membrane

Verify that the sheath has been applied at least 6 months beforehand to avoid detachments caused by the release of oils. Make sure that the overlapped parts are well attracted, and in case of detachments strengthen them with hot systems. Restore any cuts or holes, if any. Thoroughly clean the sheath by removing any paints or protective layers that are not well adhered. Depending upon the humidity of the background, provide for the installation of suitably dislocated special ventilation chimneys on the sheath. These devices are essential when dealing with very absorbent supports that retain moisture, such as screed lightened with polystyrene or expanded clay. SBS-bond has to be used as primer on the existing sheath (see technical data sheet) before applying Acriflex Fybro. In case of damaged sheath, restore it with a "sandwich system" (Acriflex Fybro + Polites TNT + Acriflex Fybro) after having used the ideal primer on the surface. The sandwich system shall be used at the overlapped parts and at the points where the sheath is most stressed

Smooth or tiled surfaces

Ensure that all the tiles are well attached to the support, otherwise remove and restore them with suitable cement mortar. The tiled surface must not contain traces of releasing substances such

as fats, waxes, oils, chemicals, etc.

After thoroughly cleaning 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 levelled surface, apply the product *WATstop* (see technical data sheet). *WATstop* should also be used if the support is damp or affected by rising humidity. Given the wide variety of tiles on the market, it is recommended to perform a test to verify the perfect adhesion of the system.

Treatment of Expansion Joints

The joints can be treated before or after the application of the waterproofing agent. Be careful not to fill the joint with the *Acriflex Fybro* waterproofing agent. The joints must be filled with the polyurethane sealant *Diaseal Strong* (see technical data sheet).

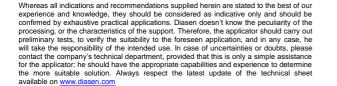
MIXING

Using a professional mixer, carefully mix the two components (**A** + **B**) of *Acriflex Fybro* to obtain a homogeneous dough, without lumps.

In extremely hot weather conditions, a maximum of 10% of clean water can be added. Never add foreign components to the mixture.

APPLICATION

- **1.** Waterproof structural joints with *Safety Joint Roll* (see technical data sheet) impregnated with *Acriflex Fybro*, applied by brush, creating a tank effect.
- **2.** Apply a first layer of *Acriflex Fybro* with either short-haired roll, squeegee, airless or brush with a thickness of about 1 mm (yield 1.00 kg/m² or 0.20 lb/ft²). In case of rain over not perfectly dry product, carefully verify the suitability of the next covering.
- 3. When the first layer is dry, apply a second layer with a thickness of about 1 mm (yield 1.00 kg/m² or 0.20 lb/ft²) avoiding to leave holes on the surface. The minimum total thickness to guarantee the waterproofing is equal to 2 mm.





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After it has dried, *Acriflex Fybro* can be covered with tiles. Glue the tiles onto *Acriflex Fybro* with an improved performance class C2 or higher cement adhesive. Before laying the tiles wait about 48 hours (at 23 ° C and 50% relative humidity)

DRYING TIME

At a temperature of 23°C (73 °F) and 50% relative humidity, the product dries in about 4 hours.

- Drying time is influenced by temperature and environmental relative humidity conditions and may also significantly change.
- Once Acriflex Fybro is dry, it can be made walkable by using Floorgum Paint (see technical data sheet), coated with other Diasen coating products or it can be tiled.

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 frost, in conditions of strong fog or with relative humidity higher than 70%.
- Wait for at least 12 24 hours from the application before using the product, and during this time protect it from water contact.
- Once dry, Acriflex Fybro must be coated or made walkable or vehicles accessible with coatings (see Diasen Coatings).
- It is very important to make regular expansion joints on the screed to prevent cracks on the coating.

CLEANING

Wash tools with water before the product hardens.

SAFETY

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



available on www.diasen.com



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

Technical data					
Features		Unit			
Yield	2.00 kg/m ² for 2 mm thickness 0.41 lb/ft ² for 2 mm thickness	kg/m² lb/ft²			
Aspect	Semi-solid	-			
Colour	grey	-			
Minimum thickness	2.0	mm			
Minimum thickness	0.078	in			
Dilution	If necessary, max 10% of water	-			
Pot life (T=23°C - 73 °F, R. H. 50%)	24 - 30	hours			
Waiting time 1 st and 2 nd coat (T=23°C – 73 °F, R. H. 50%)	4 - 8	hours			
Application temperature	+5 /+35 41/95	°C °F			
Drying time (T=23°C – 73 °F, R. H. 50%)	4	hours			
Storage	12 months in original packaging and dry places	months			
Packaging	25 kg (55.11 lb) plastic bucket	kg			

^{** 1680} hours of weathering tests correspond to about 10 years. This correspondence is merely indicative and it may change according to the weather conditions where the product will be used.

Final performances			Unit	Regulation	Result
Waterproofing		Test: passed	-	EN 14891	waterproofing
Waterproofing in positive water pressure		9.5 9.4	bar atm	EN 12390-8	-
Break Elongation		149.33%	-	ISO 527-1	-
Crack Bridging Ability		3.2	mm	ISO 527-1	-
Weathering Test**		1680 (10 years**)	hours	EN ISO 11507	-
Resistance to 50 freeze cycles (-15°C/+15°C)	e-thaw	unchanged	-	EN 202	unchanged
Bend test to cold		- 26 -14.8	°C °F	ISO 1519	Resistant up to a diameter of 10 mm.
Punching resistance		68.7 7.0	N kgf	UNI 8202 ASTM D4833	-
Tensile Strength		2.37	MPa	-	-
Fire reaction		class C – s2, d0	-	EN 13501-1	-
Adhesion test for direct concrete	traction on	1.089	N/mm²	UNI EN 1542	Break type A/B between support and product
Adhesion on slightly wear bituminous	Adhesion Test	2.50	MPa = N/mm²	EN ISO 4624 ASTM D4541	Break type A of the support



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membrane	pull – off			
Adhesion on polystyrene		1.25	EN ISO 4624 ASTM D4541	Break type A/B between support and product
Adhesion on closed cells polyurethane		0.50	EN ISO 4624 ASTM D4541	Break type A of the support

Indoor Air Quality (AIQ) Certification				
Evaluation of the results				
Regulat	tion 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 B C	
French (CMR components	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)	Pass	
Italian C	AM Edilizia	Decree 11 October 2017 (GU n.259 del 6-11-2017)	Pass	
AgBB/ABG Gesi		Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes, ABG May 2019, AgBB August 2018	Pass	
Belgian	Belgian Regulation Royal decree of May 2014 (C-2014/24239)		Pass	
EMICO	EMICODE April 2020		EC 1 PLUS	
Indoor A	Indoor Air Comfort® Indoor Air Comfort 7.0 of May 2020		Pass	
Indoor A	Indoor Air Comfort GOLD® Indoor Air Comfort GOLD 7.0 of May 2020		Pass	
DE-UZ 113 for "Low-Emission Floor Covering Blue Angel (DE-UZ 113) 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	
CDFII	Office scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass	













