

ACRIFLEX Fybro

Elastic fiber-reinforced liquid waterproofing membrane

Two-component fiber-reinforced water-based waterproofing membrane, formulated with acrylic resin and cement, to be used even at low temperatures. Resistant to ponding water, UV rays, low and high temperatures and freeze-thaw cycles. Suitable to waterproof terraces, flat roofs, pedestrian areas, parking areas, swimming pools, cisterns, foundations, flashings, expansion joints and for the restoration of old bituminous membranes (in combination with *SBS-bond*). Thanks to the presence of polypropylene fibres it can be applied without reinforcement net.

ADVANTAGES

- Easy and quick application in two coats
- High traction resistance
- Excellent elasticity
- It can be applied over existing flooring (using *WATstop* – yield 0,3 kg/m², see technical data sheet)
- Tiles can be glued directly over *Acryflex Fybro* using a suitable glue for outside
- It can be made walkable using *Floorgum Paint* (see technical data sheet) or suitable for vehicles transit using *Floorgum Tyre Mono* (see technical data sheet)
- It does not need reinforcement mesh.
- Solvent free

YIELD

2,5 kg/m² for 2 mm (0.079 in) of thickness.

COLOUR

Grey.

APPLICATION FIELDS

Suitable to waterproof:

- terraces and horizontal surfaces;
- expansion joints in combination with *Safety Joint Roll* (see technical data sheet);
- flashings;
- foundations;
- tanks;
- restoration of old bituminous or slated membranes in good conditions;
- for vertical application of foundations in presence of underground water (see *Bentotelo* and *Diasen Bentonite products*);
- bathrooms;
- shower boxes.

PACKAGING

25 kg plastic bucket

Each bucket contains the 2 components (A+B) already measured, ready to be mixed.

Pallet: 48 buckets (1200 kg).

STORAGE

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

Storage time 12 months.



Diasen srl

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14

EN 1504-2

**Products and systems for the protection and restoration
of concrete structures – Part 2 : Systems to protect
concrete surfaces**

Adhesion to concrete: 1,089 N/mm²,
break type A/B

Fire resistance: class C – s2,d0



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

Waterproofing - Liquid

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should nevertheless be considered as indicative only and should be confirmed by exhaustive practical applications. Therefore, before using this product, we recommend in any case to perform preliminary tests with the purpose of verifying the complete suitability for the intended use. In case of uncertainties and doubts contact our technical office. This sheet supersedes any other previously released.

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Technical Data

Features		Units
Yield	2,50 for 2 mm of thickness	kg/m ²
Aspect	semidense	-
Colour	grey	-
Application thickness	2,0	mm
	0.079	in
w/c ratio	5 - 10%	-
Mixture consistency	Liquid	-
Application time (pot life) at 20°C, R.H. 40%	24 – 30	hours
Waiting time between 1st and 2nd coat (T=20°C; R.H. 40%)	4	hours
Application temperature	+5 /+35	°C
	+41°F / +95	°F
Drying time (T=20°C; R.H. 40%)	4	hours
Storage	12 months in original containers and in dry places	months
Packaging	25 kg plastic bucket	kg

Final performances		Units	Regulations	Result
Waterproofing resistance	9,5	atm	UNI EN 12390-8	waterproofing
	9.5	bar		
	139.61	psi		
Break Elongation	149,33%	-	ASTM D638	elastic
Crack Bridging Ability	3,2	mm	ASTM C1305-00	resistant
	0.13	in		
Accelerated Weathering Test	2000 (> 10 years*)	hours	ASTM D4587	resistant
After 50 freeze-thaw cycles (-15°C /+15°C)	unchanged	-	UNI EN 202 ASTM C666	unchanged
Cold flexibility	- 26	°C	-	flexible
	- 14.8	°F		
Punching resistance	kg 7 = 68,7 N	kg – N	ASTM D4833	resistant
	15.44	lbf		
Tensile Strength	2,37	MPa	ISO 527-3	resistant
	336	psi	ASTM D2370	
Adhesion to concrete	1,089	N/mm ²	UNI EN 1542	type A/B break
	157.95	lbf/in ²	ASTM D4541	-
Fire resistance	class C – s2, d0	-	UNI EN 13501-1	-

* 1680 hours of weathering test is equal to about 10 years. This equivalence is merely indicative and it may vary depending on weather conditions. The above data, even if carried out according to regulated tests are indicative and they may be change when specific site conditions vary.

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PREPARATION OF SUPPORT

- The support must be completely hardened, dry and resistant enough.
- The surface must be thoroughly clean, well consolidated, without debris or detaching parts.
- Substrate temperature must be between +5°C and +35°C (+41°F and +95°F).
- In presence of new realised cement substrate, this must be sufficiently dry and cured.
- Old ceramic pavements must be attached to the substrate and must present on the surface any detaching parts such as greases, oils, waxes, chemical products, etc.
- Do not apply onto damaged or crumbly surfaces.

MIXING

Dilute the first coat of product with 5-10% of water. Add water directly on part A before mixing with part B, to allow the product to penetrate well into the screed. Mix well the two components (A+B) to obtain a homogeneous mixture, without clots. Use a high speed professional mixing drill. The water indicated on the package is an indicative value. It is possible to obtain a more or less fluid mixture depending on the needed application. Do not add anything else to the mixture. Do not dilute further the product to apply the second coat.

APPLICATION

1. Seal dilatation joints if present with Diaseal Strong and waterproof them with *Safety Joint Roll* (see technical data sheet) impregnated with *Acriflex Fybro* apply by brush.
2. In presence of humidity apply *WATstop* as vapour barrier (yield: 0,6 kg/m² – see technical data sheet).
3. Without humidity and on concrete smooth surface or already paved support apply *WATstop* (yield: 0,3 kg/m²).
4. Waterproof the vertical joints using *Safety Joint Roll* (see technical data sheet) soaked with *Acriflex Fybro*, applied by brush creating a tank effect.
5. Apply a first coat of *Acriflex Fybro* of 1 mm by brush, roll or airless (yield 1,25 kg/m²). In case of rain on a non perfect dry product, carefully check the suitability of the next covering.

6. Once the first coat is dry, remove the potential superficial condensation and apply a second coat of product of 1 mm – 0.039 in (yield 1,25 kg/m²) taking care to completely cover the net, avoiding to leave hole on the surface. The total minimum thickness to guarantee waterproofing is 2 mm - 0.079 in.

DRYING TIME

At 20°C (+68°F) and 40% of relative humidity level, the product drying time is 4 hours.

- Drying time is influenced by relative humidity level and by temperature and may change significantly.
- Once the product is dry, *Acriflex Fybro* must be coated with Diasen coating systems or tiles can be directly applied onto it.

SUGGESTIONS

- Do not apply at temperatures lower than +5°C (+41°F) or higher than +35°C (+95°F).
- During summer season apply the product in the cooler hours of the day, away from sun.
- Do not apply with imminent threat of rainwater or ice, in case of strong fog or relative humidity level higher than 70%.
- With existing bituminous membranes, their removal can be avoided applying *Acriflex Fybro*.
- In case of waterproofing of existing bituminous membranes, it may be necessary to apply adequate ventilation chimneys. This precaution is necessary in presence of highly absorbent supports that retain humidity, such as screed lightened with polystyrene or expanded clay.
- It is very important to made regular expansion joints on the screed to avoid cracks in the coating.
- We do not recommend the application onto new bituminous membranes because the presence of oils and greases could compromise the adhesion of the product.

CLEANING

Wash tools with water before product hardens.

SAFETY

While handling use means of protection. See product safety data sheet.

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