

ACRIFLEX MONO FYBRO

One – component liquid, fibreinforced, stagnation resistant waterproofing

One-component water-based fibreinforced liquid waterproofing, ready to use. It is UV rays resistant, water – repellent and it is available in different colours. Suitable to waterproof concrete surfaces, bituminous and slated membranes, tiled surfaces, wood or metal surfaces and brick masonry and as under tiled waterproofing.

BENEFITS

- It allows to waterproof applying low thickness layers.
- Water stagnation resistant.
- Elastic even at low temperatures.
- It is able to suit to the geometry of the support creating a continuous waterproofing layer.
- Abrasion resistant.
- Walkable for normal maintenance works.
- Resists to UV rays, weathering agents, industrial and marine environments.
- Solvent free product.

APPLICATION FIELDS

This product is studied to waterproof flat and sloped coverings, terraces, balconies, waterspouts, flashings, eaves, foundation walls, vertical surfaces and other concrete structures. *Acriflex Mono Fybro* can be used to waterproof smooth bituminous membranes or oxidised slated membranes in combination with the primers *Eposint* and *SBS-bond* (see technical data sheets) in relation to the conditions of the membrane itself. The product can also be applied directly on wooden surfaces and on non absorbent surfaces (tiles, metal etc.) after the application of *Grip Primer* (see technical data sheet).

COLOUR

White, grey and red.

YIELD

2.0 kg/m² per mm of thickness.

PACKAGING

20 kg (44.1 lb) plastic bucket.
Pallet: 48 buckets (960 kg – 2116.44 lb).

STORAGE

Store the product in its original and perfectly closed containers, in well ventilated areas, protected from sunlight, water and frost, 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 surface is crumbly in its entirety, scrap it until obtaining a good support and restore lesions and damaged parts with suitable mortar.

Potential humidity in the support and the vapour caused by radiation may compromise the adhesion of the applied products.

In case of hydro-cleaning, wait for the complete drying of the support.

Waterproofing – liquid

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.



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Technical data

Features		Units
Yield	2.0 kg/m ² per mm of thickness	kg/m ²
Aspect	semi-dense	-
Colour	white, grey, red	-
Mixing water	if necessary 5%	-
Minimum thickness	1.0	mm
Waiting time between 1 st and 2 nd coat (T = +23°C / +73.4°F; R.H. 50%)	1	hour
Application temperature	+5 / +35	°C
	+41 / +95	°F
Drying time (T = +23°C / +73.4°F; R.H. 50%)	3	hours
Storage	12	months
Packaging	20 kg plastic bucket	kg
	44.1 lb plastic bucket	lb

Final performance		Units	Regulations
Impermeability	1.5	atm	EN 12390-8
Break elongation	150 ± 10	%	ISO 527-1
Crack Bridging Ability	2,5	mm	ASTM C1305
	1	in	
Weathering test	1680 hours (10 years*)	hours	UNI EN 11507
Dry extract	70	%	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 areas, restore them with suitable cement mortar.

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

On moist supports, in order to avoid blistering or detaching phenomena, use *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 small cracks.

On rough supports, it is recommended the use of the primer *Vapostop* (see technical data sheet).

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 bonded, in case of detachments, weld them again with hot systems.

Restore potential cuts or holes.

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

Consider the installation of ventilation chimneys, placed on the membrane according to the humidity of the substrate.

This measure is necessary in case of highly absorbent supports that hold moisture, such as lightened 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 Mono Fybro* + *Polites T.N.T.* + *Acriflex Mono Fybro*) 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.

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.

Masonry

If necessary, clean the surface with brushing. Control the condition of the masonry; restore damaged or not well attached bricks or stones. On supports that must be regularised, use a filling mortar.

Metal

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

Before the application of *Acriflex Mono Fybro*, 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 Mono Fybro* can directly be applied.

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

On wooden surfaces, match boarding or on supports with many joints, reinforce *Acriflex Mono Fybro* with sandwich system (*Acriflex Mono Fybro* + *Polites TNT* + *Acriflex Mono Fybro*).

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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).

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 Mono Fybro*, applied by brush, creating a tank effect.

Treat points in contact with doorsteps or with windows with the sealant *Diaseal Strong*.

MIXING

Acriflex Mono Fybro is ready to use; before the application, it is recommended to mix it in order to make it homogeneous. In extremely hot climatic conditions, it is possible to add 5% of clean water and keep mixing.

Do not add other substance to the product.

APPLICATION

1. Wait for the complete drying of the primer used and apply a first coat of *Acriflex Mono Fybro* 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 1.0 mm. In case of rain over not completely dry product, carefully verify the suitability of the next covering.
3. When *Acriflex Mono Fybro* is dry, it can be left at sight or it can be tiled. Glue tiles on *Acriflex Mono Fybro* 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 3 hours.

- Drying time is influenced by environmental relative humidity and by temperature and it may significantly change.
- If applied with a higher yield than the expected one, drying time can significantly increase.
- Once dry, *Acriflex Mono Fybro* can be left at sight or it can be coated with tiles.

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.
- If applied on horizontal surfaces, it is recommended to verify that the support has suitable slope for water down flow.
- 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 hardening.

SAFETY

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

Waterproofing –
liquid

