

ACRIFLEX MONO

One-component liquid waterproofing

Ready-to-use, water-based monocomponent liquid waterproofing. It can be left exposed and is available in different colours. Suitable for waterproofing concrete surfaces, bituminous and slated membranes, tiled surfaces, metal and wood.

BENEFITS

- Allows waterproofing by applying small thicknesses.
- Stays elastic even at low temperatures.
- Adapts to the geometry of the support to be waterproofed by creating a continuous coat.
- Tiles can be attached directly to *Acriflex Mono* in accordance with EN 14891.
- It is accessible to pedestrians for normal maintenance.
- Resistant to UV rays, atmospheric agents, industrial environments and seaside areas.
- Solvent free product.

YIELD

2,0 kg/m² in 2 coats.

COLOUR

White, grey and red.

PACKAGING

5 or 18 kg plastic bucket.

Pallet: - 5 kg buckets – 20 boxes (4 pieces each – 400 kg);
- 18 kg bucket – 48 buckets (864 kg).

APPLICATION FIELDS

Product suitable for waterproofing roofs, terraces, balconies, horizontal concrete surfaces, foundations, flashes, eaves, cornices, chimneys, sheds, walls and facades. *Acriflex Mono* is also suitable for waterproofing and restoration of smooth oxidised bituminous or slated membranes in combination with *SBS-bond* (see data sheet).

The product can also be applied to non-absorbent surfaces (tiles, metal, etc.) after using *Grip Primer* (see technical sheet) as primer, and is suitable for waterproofing wooden surfaces.

STORAGE

The product must be stored in its original containers well closed, in well ventilated areas, away from sunlight, water and ice, at temperature between +5°C (41°F) and +35°C (95°F). Storage time: 12 months.

PREPARATION OF SUPPORT

The substrate must be completely hardened and have sufficient strength. The surface must be thoroughly cleaned, dry, free of oils, fats, brittle and inconsistent parts or other materials which may affect the adhesion of the product. In cases where the surface is generally friable, it shall be fully discharged until good support is obtained and lesions or degraded parts with suitable mortar restored. Any moisture present in the support and the vapour produced by irradiation may affect the adhesion of the products applied. In case of hydro-cleaning, wait for the complete drying of the support.

Concrete

In the case of newly built concrete bottom, it must be sufficiently cured. If any injury, hole or irregular area is presents, restore it with suitable cement mortar. For a better adhesion on smooth, non-wet concrete it is recommended the use of *Grip Primer* (see data sheet).



Waterproofing – Liquid

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On moist supports, in order to avoid blistering or detachment phenomena, use *Vapostop* (see data sheet) as a primer. If the support is subject to rising humidity, it is necessary to use *WATstop* (see data sheet).

WATstop can also be used to fill small cracks. On rough concrete use *Vapostop* (see data sheet) as primer.

Bituminous or slated membrane

Verify that the membrane has been applied at least 6 months earlier, the to avoid detachments caused by the release of oils. Make sure that the overflights are well attached, in case of detachments, strengthen them with hot systems. Restore any cuts or holes, if present. Carefully clean the sheath by removing any paints or protective layers that are not well adhered. Design the installation of special ventilation chimneys suitably dislocated on the membrane, according to the humidity of the background. This step is essential whenever there is the presence of very absorbent supports retaining moisture, such as screed lightened with polystyrene or expanded clay. The conduits must be primed with the product *SBS-bond* (see data sheet). In case of damaged membrane, restore it with a *sandwich*-type system (*Acriflex Mono + Polites TNT + Acriflex Mono*) after priming the surface. The *sandwich* system shall be used at the overflows and points where the membrane 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 thoroughly cleaning the support, the surface must be treated with *Grip Primer* (see data sheet). To fill the joints between the tiles and create a perfectly levelled surface, apply *WATstop* (see data sheet). *WATstop* should also be used if the support is moist 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.

Metal

Perfectly clean the surface eliminating dirt and any paints not well adhesive. Before proceeding with the application of *Acriflex Mono*, prime the metal surfaces with *Grip Primer* (see data sheet).

In the presence of rust, before applying *Grip Primer*, treat the surface with a suitable anti-rust product. If the metal surface is painted, it is recommended to perform a test to verify the perfect adhesion of the system.

Wood

Carefully clean the surface by removing dust, crumbly parts and detaching flakes. The wood must be completely dry, well cohesive and dimensionally stable. On untreated wooden supports proceed with direct application of the product. In other cases, carry out a preliminary test to verify adhesion. On boards, beads or supports with a high number of joints, strengthen *Acriflex Mono* with a *sandwich*-type system (*Acriflex Mono + Polites TNT + Acriflex Mono*). For media not present in the technical sheet, contact the technical office Diasen.

Treatment of expansion joints

Expansion, control or insulation joints shall be treated prior to the application of the waterproofing agent. The joints must be filled with the polyurethane sealant *Diaseal Strong* (see data sheet). In the corner wall-floor, use *Diaseal Strong* to create a continuous curved surface.

After the complete drying of the sealant, the conjunctions shall be waterproofed with *Safety Joint Roll* (see data sheet) impregnated with *Acriflex Mono*, applied with a brush creating a rounded angle. All those points of contact with the thresholds of doors and windows should also be treated with *Diaseal Strong* sealant.

MIXING

Acriflex Mono is ready to use. Before application it is recommended to mix it to make the product homogeneous. In extremely hot weather conditions it is possible to add 5% clean water and continue mixing. Do not add other substances to the product.

WATERPROOFING - liquids

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APPLICATION

1. Wait for the complete drying of the primer used, then apply a first layer of *Acriflex Mono* with roller, smooth steel spatula, rubber squeegee, water-pulling spatula, airless or brush.
2. Wait for the complete drying of the primer used and apply a first layer of *Acriflex Mono* with roller, smooth steel spatula, rubberized blade, squeegee, airless or brush.
3. After drying the first layer, apply a second to cross covering the surface. In case of rain on product not perfectly dry carefully check the suitability for the next coating.
4. Proceed with the application in successive layers until the expected yield and a minimum total thickness of 1.5 mm is reached, thus ensuring waterproofing.
5. After drying, *Acriflex Mono* can be covered with tiles. Attach the tiles to *Acriflex Mono* with a C2 class cement adhesive or one at superior class, with improved performance. Before laying the tiles wait about 48 hours (at +23°C / +73.4°F and 50% relative humidity).

DRYING TIME

At 23°C / +73.4°F and 50% relative humidity, the product completely dries in about 4 hours.

- The drying times are influenced by the relative humidity of the environment, the temperature and may vary also in a significant way.
- If applied in higher yields than expected, the drying time could significantly increase.
- When the product is dry, *Acriflex Mono* can be made for pedestrians by applying *Floorgum Paint* (see data sheet) or it can be coated with other products of the line *Diasen* coatings. *Acriflex Mono* can be tiled too, thus one can proceed with the application of tiles.

SUGGESTIONS

- Do not apply with environmental temperatures or support temperatures 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.
- Do not apply with imminent threat of rain or frost, with dense fog condition or relative humidity of 70% or more.
- If applied to horizontal surfaces, it is advisable to check that the support has the right slopes for the outflow of rainwater.
- It is very important to provide in the screed, at regular intervals, special expansion joints.
- The joints must be executed to perfection. Protect the product from pouring rain until it is completely dry.
- Before applying the product, is recommended to cover every element that must not be treated.
- After drying, *Acriflex Mono* must either be coated, or made for pedestrians or vehicles, by using specific coatings (see *Diasen* coatings).

CLEANING

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

SAFETY

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

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Technical data *		
Features		Unit
Yield	2.0 kg/m ² in 2 coats	kg/m ²
	0.40	lb/ft ²
Aspect	Semi-dense	-
Colour	White, grey, red	-
Mixing water	If necessary 5%	-
Minimum thickness	1.5	mm
	0.0015	in
Waiting time between 1 st and 2 nd coat (T=23°C/73.4°F; R.H. 50%)	4	Hours
Application temperature	+5 /+35	°C
	+41/+95	°F
Drying time	4	Hours
Storage	12	Months
Packaging	5 or 18 kg plastic bucket	kg

Final performances		Unit	Regulation	Result
Impermeability to water	1.5	atm	EN 12390-8	-
<i>Break Elongation Test</i>	170 ± 10	%	ISO 527-1	-

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

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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)	
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)
	Office scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)



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