ACRIFLEX pH4

Fibre-reinforced elastic liquid cement waterproofing with high chemical resistance

Two-component, water-based, fibre-reinforced liquid waterproofing agent, formulated with acrylic resin and cement, for use even at low temperatures. Resistant to water stagnation, critical pH, low temperatures and continuous freeze-thaw cycles. Designed for waterproofing tanks containing highly acidic or basic substances.

BENEFITS

- Resistant to pH levels between 2 and 12.
- It can be left in direct contact with acid or basic substances.
- · Easy and quick application.
- · High tensile strength.
- Excellent elasticity.
- It allows to waterproof applying low thickness layers.
- · Water-based product, solvent free.

YIELD

2,5 kg/m² (0.51 lb/ft²) in 2 coats.

COLOUR

Grey.

PACKAGING

Part A - 13 kg plastic bucket. Part B - 12 kg plastic bucket.

Pallet: part A - 48 buckets (624 kg). Pallet: Part B - 48 sacks (576 kg).

APPLICATION FIELDS

A product designed for waterproofing tanks containing liquids with basic or acid pH and for protecting substrates in direct contact with highly corrosive substances.

Acriflex pH4 can be used indoors or outdoors.

STORAGE

The product must be stored in well-ventilated rooms, away from sunlight and frost, at temperatures between +5°C and +35°C.

WATERPROOFING – Liquids

The indications and prescriptions given, while representing our best experience and knowledge, are to be considered indicative and must be confirmed by exhaustive practical applications. Diasen does not know the specifics of the application and even less the determining characteristics of the application support. Therefore, before using the product, the applicator must in any case aszume all responsibility that may arise from its use. In the event of any uncertainties or doubts, contact the company's technical office before starting work, it being understood that this support is merely an aid for the applicator, who must in any case guarantee that he/she possesses adequate skills and experience for laying the product and for identifying the most suitable solutions. Always refer to the latest updated version of the technical datas sheet, available at www.diasen.com, which cancels and replaces all others.

Storage time 12 months.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened and of sufficient strength. The surface must be thoroughly clean, well consolidated, free of crumbling and loose parts and perfectly level. Before applying the product, it is recommended to cover any elements that are not to be coated. Any cracks or deteriorated parts of the substrate must be repaired before the product is applied.

Concrete

In the presence of deteriorated and crumbling concrete, provide restoration with *Rebuild*⁴⁰ *R4* mortar (see technical data sheet). If the substrate is damp, primer the surface with *WATstop* (see technical data sheet).

Concrete screeds

On screeds in contact with the ground or damp screeds, apply *WATstop* as a vapour barrier (see data sheet), then proceed with the application of *Acriflex pH4*.

Smooth surfaces

On particularly smooth and non-absorbent surfaces, use the specific product called *Grip Primer* (see data sheet).





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For substrates not listed in the data sheet, please contact the Diasen technical department.

Treatment of joints and connections

Joints must be treated prior to application of the waterproofing agent. Thoroughly clean the joints and fill them with Diaseal Strong polyurethane sealant (see technical data sheet).

MIXING

Depending on the degree of water absorption of the substrate and subjected to environmental conditions, it is recommended to dose the correct amount of water required to achieve correct application and adhesion. The specified amount of water is indicative. If necessary, in hot weather dilute the product with up to 10% clean water. Add water directly to part A before mixing with part B, to allow the product to penetrate the screed thoroughly. Then mix the two components (A+B) of Acriflex pH4 thoroughly until a homogeneous, lump-free mixture is obtained. Use a professional mixer. Never add foreign components to the mix.

APPLICATION

- Waterproof the joints between horizontal and vertical surfaces with Safety Joint Roll (see technical data sheet) impregnated with Acriflex pH4, applied by brush to create a pool effect.
- On damaged surfaces or irregular points (e.g. connection points between different materials) use Polites TNT reinforcement (see technical data sheet).
- Apply a first coat of Acriflex pH4 with a short-hair roller, spatula or airless. In case of rain on a not perfectly hardened product, carefully check the suitability for subsequent coating.
- Once the first one has dried, apply a second layer of product, avoiding leaving holes on the surface.

DRYING TIME

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

- · Drying times are influenced by the relative humidity of the environment and temperature and can vary significantly.
- If applied at a higher yield than expected, drying times may increase significantly.

SUGGESTIONS

- Over time, the appearance of the tint of the first coat indicates the need to restore the encapsulating cycle.
- Do not apply at ambient or substrate temperatures below +1°C and above +35°C.
- During the summer season, apply the product during the cooler hours of the day, out of the sun.
- Do not apply the product in case of frost or imminent rain.
- Protect the product from driving rain as long as it feels fresh to the touch.
- Before applying the product, we recommend covering any elements that are not to be

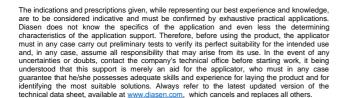
CLEANING

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

SICUREZZA

Always use personal protective equipment when handling and follow the product's safety data sheet.

WATERPROOFING – Liquids



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^{*} The data shown, although carried out according to standardised test methods, are indicative and may be subject to change as specific site conditions vary.

Technical Data *							
Features				Units			
Yield		kg/m² lb/ft²					
Aspect		-					
Colour		-					
Mixing water		-					
Pot Life at 23°C (+73.4°F) and R.H. 50%	20 - 30			hours			
Waiting time between 1 st e 2 nd coat T=23°C (+73.4°F), R.H. 50%		hours					
Application temperature	+5 /+35			°C			
	+41/+95			°F			
Drying time T=23°C (+73.4°F), R.H. 50%		hours					
Storage		months					
Packaging	Part A	plastic bucket	13 kg 28.66 lb	kg lb			
	Part B	plastic bag	12 kg 26.46 lb	kg lb			

^{** 1680} hours of accelerated ageing corresponds to approximately 10 years. This correspondence is purely indicative and may vary considerably depending on the climatic conditions of the place where the product is used.

Final performances		Units	Regulations	Result
Water impermeability	9.5	atm	UNI EN 12390-8	waterproof
Break Elongation	87%	-	-	elastic
Crack Bridging Ability	2,0	mm		resistant
Weathering Test	1680 (>10 years**)	hours/years	-	resistant
Resistance after 50 freeze-thaw cycles (-15°C/+15°C)	unchanged	-	UNI EN 202	unchanged
Flexinility at cold temperatures	-20	°C	-	flexible
Chemical resistance at pH values between 2 and 12	7 kg = 68.7 N	Kg - N	-	resistant
Adhesion to substrate primed with <i>WATstop</i>	-	-	-	resistant
Water vapour permeability	$\mu = 1736$	-	UNI EN ISO 7783	-
Resistance to acids (contact with HCl for 20 days at pH=2,86)	corrosion 0.19%	-	-	good resistance
Resistance to bases (contact with NaOH for 20 days at pH =13,2)	corrosion 0.26%	-	-	good resistance















