

ULTRAGUM

Fast-spreading, water-based one-component bituminous product

Ready-to-use, single-component, elastic-bituminous waterproofing in water emulsion, which can also be applied at low temperatures and high relative humidity. Flexible at low temperatures and available in various colours.

BENEFITS

- Waterproofs even at low temperatures and high ambient relative humidity.
- Fast filming: it resists washout, bleaching and wrinkling caused by foggy and dewy environmental conditions within 30 minutes of application.
- The product spins properly even in low temperature and high relative humidity conditions, thanks to the special “*smart drying technology*”.
- Flexible at low temperatures.
- Can be left exposed.
- Resistant to water stagnation, UV rays, atmospheric agents, industrial and coast side environments.
- Allows for thin waterproofing.
- Produces a continuous layer without joints and adapts to complex substrate geometries.
- Ready to use, quick and easy to apply.
- Versatile in many applications.
- *Solvent free*.
- Product certified with the **European Technical Assessment - ETA n° 17/0769** when used in combination with *Acriflex Pro* o *Acriflex Rapido* waterproofing reinforced with *Polites TNT*.

YIELD

2,0 kg/m² in 2 layers.

COLOUR

Black and grey.

PACKAGING

5 kg and 20 kg plastic buckets.
Pallet: 48 buckets of 20 Kg (total of 960 kg),
20 boxes (4 buckets of 5 kg each) (total of 400 kg).

FIELDS OF APPLICATION

Ultragum is designed for waterproofing smooth or slated bituminous membranes in combination with *SBS-bond* primer (see technical data sheet). The product, used in combination with *Polites TNT* (see technical data sheet), makes it possible to restore cracks, detachments and fissures in the membranes. *Ultragum* is also suitable for waterproofing flat or sloping concrete roofs, canopies, terraces, balconies, flashings, eaves, cornices, chimneys, foundation walls, walls, fibre cement slabs, indoor areas such as bathrooms, shower cubicles, kitchens and wet areas. *Ultragum* can be applied to existing floors or metal surfaces in combination with *Grip Primer* (see technical data sheet). *Ultragum* is also suitable for waterproofing wooden surfaces.

STORAGE

The product must be stored in the original closed containers in a well ventilated area, away from sunlight, water and frost, at temperatures between +5 °C (+41 °F) and +35°C (+95 °C). Storage time 12 months.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened and of sufficient strength. The surface must be thoroughly clean, dry, and free of oil, grease, crumbling and loose parts or other materials that could impair the adhesion of the product.



Ultragum, together with the product *Acriflex Pro* or *Acriflex Rapido*, is part of the waterproofing system according to **ETAG 005:2000**, certified with the **European Technical Assessment - ETA n° 17/0769**.

WATERPROOFING – liquids

The indications and prescriptions reported, although representing our best experience and knowledge, are to be considered as indicative and will have to be confirmed by exhaustive practical applications. Diasen does not know the specifics of the work and even less the determining characteristics of the application support. Therefore, before using the product, the applicator must in any case carry out preliminary tests to verify the perfect suitability for the intended use and, in any case, assumes all responsibility that may arise from its use. In the event of uncertainties or doubts, contact the company's technical office before starting work, bearing in mind that this support is merely an aid for the applicator, who must in any case guarantee that he has adequate skills and experience for laying the product and identifying the most suitable solutions. Always refer to the latest version of the technical data sheet, available on the website www.diasen.com, which cancels and replaces all others.

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In cases where the surface is crumbly as a whole, scarify it completely until a good substrate is obtained and restore the cracks or deteriorated parts with suitable mortar.

Moisture that may be present in the substrate and the steam that forms as a result of radiation may affect the adhesion of the products applied. In the case of hydro-cleaning, wait for the substrate to dry completely.

Bituminous or slated sheathing

Check that the sheath has been applied for at least six months to avoid detachment caused by the release of oils. Make sure that the overlaps are well adhered, in case of detachments, reinforce them with hot systems. Thoroughly clean the membrane, removing any paint or protective layers that are not well bonded. Provide for the installation of special air vents on the sheath, suitably positioned according to the humidity of the substrate.

This is essential in the presence of highly absorbent substrates that retain moisture, such as screeds lightened with polystyrene or expanded clay. The membranes must be primed with *SBS-bond* (see technical data sheet).

If the sheath is damaged, restore it with the sandwich system (*Ultragum + Polites TNT + Ultragum*) after priming the surface. The sandwich system should be used at the overlaps and at the points where the sheath is most stressed.

Concrete

New concrete substrates must be sufficiently cured. If there are cracks, holes or irregular areas, restore them with suitable cement mortar. For a better adhesion on smooth, not wet concrete, we recommend the use of *Grip Primer* (see technical data sheet). On damp substrates, in order to avoid blistering or detachment, use *Vapostop* (see technical data sheet) as primer. If the substrate is subject to rising damp, use *WATstop* (see Technical Data Sheet). *WATstop* can also be used to fill small cracks or crevices. On rough concrete use *Vapostop* primer (see Technical Data Sheet).

Smooth or tiled surfaces

Make sure that the tiles are well bonded to the substrate. If not, remove them and restore them with suitable cement mortar. The tiled surface must be free from traces of release agents such as grease, wax, oil, chemicals, etc. After thoroughly cleaning the substrate, the surface must be treated with *Grip Primer* (see technical data sheet). To fill the joints between tiles and create a perfectly level surface, apply *WATstop* (see technical data sheet). *WATstop* should also be used if the substrate is damp or affected by rising damp. Due to the wide variety of tiles available on the market, it is advisable to carry out a test to check the perfect adhesion of the system.

Metal

Clean the surface thoroughly, removing dirt and any loose paint. Before applying *Ultragum*, prime metal surfaces with *Grip Primer* (see technical data sheet). If the metal surface is painted, it is advisable to carry out a test to check the perfect adhesion of the system.

Wood

Carefully clean the surface removing dust, crumbling parts and loose flakes. The wood must be completely dry, well bonded and dimensionally stable. On untreated wooden substrates proceed with direct application of the product. In other cases, carry out a preliminary test to check adhesion. On boards, matchboards or supports with a high number of joints reinforce *Ultragum* with a sandwich system (*Ultragum + Polites TNT + Ultragum*).

For supports not included in the technical data sheet, contact the Diasen technical office.

Treatment of joints and connections

It is very important to provide expansion joints in the screed at regular intervals. Joints must be executed in a workmanlike manner.

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The joints should be filled with *Diaseal Strong* polyurethane sealant (see Technical Data Sheet). In the wall-floor corner a perimeter joint will be made with the same *Diaseal Strong* product. Once the sealant has completely dried, the joints will be waterproofed with the *Safety Joint Roll* (see technical data sheet) impregnated with Ultragum, applied by brush to create a pool effect. The *points* of contact with door and window thresholds should also be treated with *Diaseal Strong* sealant.

MIXING

Ultragum is ready to use. It is recommended to mix it before application to make it homogeneous. In extremely hot weather conditions you can add 5% clean water and continue mixing. Never add foreign components to the product.

APPLICATION

1. Wait for the primer to dry completely and apply a first coat of *Ultragum* with a long-haired roller, spatula, airless or brush.
2. When the first coat is dry, apply a second coat in a criss-cross pattern, covering the entire surface. Continue application in successive layers until the expected yield is achieved and a minimum total thickness of 1.5 mm is reached to guarantee waterproofing. In case of rain on a product that is not perfectly dry, carefully check its suitability for subsequent coating.

DRYING TIME

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

- Drying times are influenced by the relative humidity of the environment and the temperature and can vary significantly.
- If applied at a higher yield than expected, drying times may increase significantly..
- *Ultragum* resists surface whitening and wrinkling caused by high relative humidity, fog and dew after only 30 minutes from application.

SUGGESTIONS

- Do not apply at temperatures below +5°C (+41 °F) or above +35°C (+ 95 °F).
- During the summer season apply the product during the cooler hours of the day, away from the sun.
- Do not apply the product in case of frost or imminent rain.
- Protect the product from driving rain until it feels fresh to the touch.
- Before applying the product, it is advisable to cover any elements that are not to be coated.

CLEANING

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

SAFETY

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

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* The data shown, even if carried out according to standardised test methods, are indicative and may be subject to changes in specific site conditions.

Physical/technical data *

Features		Units
Yield	2,0 kg/m ² in two layers	kg/m ²
Appearance	liquid	-
Colour	black and grey	-
Mixing water	if necessary, add 5%	-
Waiting time between 1 st and 2 nd coat (T=23°C; R.H. 50%)	4	ore
Application temperature	+1 /+35	°C
Drying time (T=23°C; R.H. 50%)	4	hours
Storage	12	months
Packaging	5 kg and 20 kg plastic buckets	kg

** 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 performance**		Unit	Regulation	Result
Wash out resistance (up to +5 °C and 98% R.H.)	30	min.	internal method	-
Break Elongation	336 ± 67	%	ISO 527-1	-
Tensile Strength	1.0 ± 0.3	MPa = N/mm ²	ISO 527-1	-
Weathering test**	100 days a 80°C	days / °C	EOTA TR 011	pass
Adhesion test for direct traction on concrete	0,53	N/mm ²	UNI EN 1542	break type A/B



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