

WATERPROOFING - liquid

Ultragum

One- component bituminous waterproofing, water-based and with high-speed drying

One-component, elastomeric bituminous waterproofing, water-based and with high speed drying. The product is ready to use and applicable even in conditions of low temperature or high relative humidity. It is flexible at low temperature and available in different colours.

BENEFITS

- Quick waterproofing even in conditions of low temperature or high relative humidity.
- Quick film formation: it resists to washout, fading and corrugation caused by fog or dew after 30 minutes from application.
- Filming of the product proceeds appropriately even at low temperature and high relative humidity conditions, thanks to the particular "smart drying technology".
- Flexible at low temperature.
- It can be left at sight.
- UV-rays resistant, resistant to weather conditions, industrial and marine environments.
- Waterproofs with low thickness.
- Provide a joint less and uniform coat, adaptive to complex geometrical shapes of the support.
- Ready to use, easy and quick to apply.
- Multipurpose.
- Solvent free.

YIELD

2.0 kg/m² (0.41 lb/ft²) in 2 coats.

PACKAGING

20 kg (44.09 lb) plastic bucket.

Pallet: n° 48 buckets (960 kg – 2116.44 lb).

APPLICATION FIELDS

Ultragum is designed to waterproof slate or bituminous membranes in combination with *SBS-bond* primer (see technical data sheet). The product, used in combination with *Polites TNT* (see technical data sheet), allows the renovation of lesions, detachments and cracks of membranes.

Ultragum is also used to waterproof flat and sloped concrete coverings, terraces, balconies, waterspouts, flashings, eaves, foundation walls, fiber cement panel, bathrooms, shower stalls, kitchens and wet areas.

The product can be applied on existing floor or metal surfaces in combination with *Grip Primer* (see technical data sheet).

Ultragum is also suitable to waterproof wood supports.

COLOUR

Black and grey.

STORAGE

Store the product in its original containers, in well ventilated areas, away from sunlight, rain 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 resistant enough. The surface must be carefully clean, dry, well consolidated, without oils, greases, debris, detaching parts or any other material that might compromise the product adhesion.

The humidity on the support and the steam that creates the irradiation may compromise the adherence of the applied products.

In case of water cleaning, wait that the support is completely dry.



Diasen srl
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN)
14
EN 1504-2
Products and systems for the protection and
restoration of concrete structures –
Part 2: Systems to protect concrete surfaces

Adhesion test – direct traction: 0.53 N/mm²,
 break type A/B.



Per i video applicativi, la pagina del prodotto, la scheda di sicurezza e altre informazioni.

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, in order 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 in order to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.



Ultragum

One- component bituminous waterproofing, water-based and with high-speed drying

Technical data

Features		Unit
Yield	2.0 kg/m ² (0.41 lb/ft ²) in 2 coats	kg/m ² - lb/ft ²
Aspect	liquid	-
Colour	Black and grey.	-
Mixture consistency	liquid	-
Waiting time between 1 st and 2 nd coat (T=23°C/ 73.4°F; R.H. 50%)	4	hours
Application temperature	+5 /+35 +41/+95	°C °F
Drying time (T=23°C; R.H. 50%)	4	hours
Storage	12	months
Packaging	20 kg (44.09 lb) plastic bucket	kg - lb

Final performances		Unit	Regulation	Result
Resistance to wash out (up to +5 °C/+41°F and 98% R.H)	30	Min.	Internal method	-
Break Elongation	336.20 ± 67,18	%	ISO 527-1	-
Tensile Strength	1.00 ± 0.32	MPa = N/mm ²	ISO 527-1	-
	145.04 ± 46.41	lbf/in ²		
Weathering test	100 days at 80°C	days / °C	EOTA TR 011	passed
Adhesion test – direct traction on concrete	0.53	N/mm ²	EN ISO 1542	break type A/B
	76.87	lbf/in ²	ASTM D4541	

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

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.

Verify the membrane sheet are well attached one to the other, if not paste them with flame system.

Clean carefully the membrane by removing paints and no properly attached protective coats.

Consider anyway the installation of appropriate ventilation chimneys, placed according to the humidity of the substrate.

This measure is necessary in case of highly absorbent supports that hold moisture, such as lighten screeds with polystyrene or expanded clay.

SBS-bond must be used as primer for membranes (see technical data sheet).

In case of damaged membrane, restore it with the sandwich systems (*Ultragum* + *Polites T.N.T.* + *Ultragum*) after the use of *SBS-bond* primer. Sandwich system has to be used on joints between membrane sheets and where the membrane is more stressed.

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, in order 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 in order to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.

Ultragum

One- component bituminous waterproofing, water-based and with high-speed drying

Concrete

For new concrete floors, it must be sufficiently dry. In case of damaged or crumbly concrete, restore it with suitable cement mortar.

For a better adhesion on smooth concrete, on not moist supports, it is possible to use *Grip Primer* (see technical data sheet).

On moist supports, in order to prevent blistering or detaching phenomena, use *Vapostop* (see technical data sheet) as primer.

If the support is subjected to rising damp, it is strictly necessary the use of *WATstop* (see technical data sheet). *WATstop* can also be used to fill small cracks.

On raw concrete is recommended to use *Vapostop* (see technical data sheets) primer.

Smooth or tiled surfaces

Old floorings must be attached to the support (otherwise remove them and fill with concrete mortar) and do not present on the surface traces of detaching substances like greases, oils, chemical products etc.

After carefully clean tiled surface, it must be treated with *Grip Primer* (see technical data sheet) before the application of *Ultragum*.

Use *WATstop* (see technical data sheet) for filling tile joints and create a perfect smoothed surface. *WATstop* must be used also in case of moisture of the support or rising damp.

According to the wide range of tiles that can be found on the market, it is recommended to perform a test, in order to verify the correct product adhesion.

Metal

Clean carefully dirt and eventual non adhered paints. Before the application of *Ultragum*, treat the metal surface with *Grip Primer* (see technical data sheet).

If the metal surface is painted, it is recommended to perform an adhesion test to verify the suitability of the application.

Wood

Carefully clean the surface and eliminate all the dust, the friable parts as well as the detaching flakes. The wood must be completely dry and coherent.

On non-treated wood supports, proceed with a direct application of the product.

In every other case is recommended to execute a preliminary test to check the adhesion properties.

On boarding, parquet floorings or high jointed supports is requested a sandwich system (*Ultragum* + *Polites TNT* + *Ultragum*) in order to enforce *Ultragum*.

For all supports not mentioned in this technical data sheet, please contact Diasen technical department.

Treatment of expansion joints

Before proceeding with the waterproofing intervention, it's necessary to predispose, at regular intervals, appropriate expansion joints.

This type of joints divides the screed surface in smaller areas such that it allows the differential movements (generated by variation in the environmental conditions or concrete maturation phenomena) among these latter. Expansion joints must be done carefully in order to avoid water infiltrations. The designer must evaluate the size of the areas and its realization modality according to the substrate conditions.

Joints must be filled with the polyurethane sealant *Diaseal Strong* (see technical data sheet).

Realize a shell in the wall-to-floor corner with the same *Diaseal Strong* product. Once the sealant has completely dried, the corners must be waterproofed with *Safety Joint Roll* (see technical data sheet) impregnated with *Ultragum*, applied by brush creating a continuous surface.

Apply *Diaseal Strong* also in the contact points with doors and windows.

MIXING

Ultragum is a one-component and ready to use product. Mix the product until obtaining a homogeneous mixture. In case of extremely hot climatic conditions it is possible to dilute *Ultragum* with at max 5% of clean water and to continue mixing. Never add other substances to the mixture.

APPLICATION

1. Wait until primer used is completely dry and apply a first coat of *Ultragum* by long-haired roll, squeegee or airless.

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, in order 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 in order to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.

Ultragum

One- component bituminous waterproofing, water-based and with high-speed drying

2. When the first coat is dry, apply a second one, crossing the coats and taking care to completely cover the entire surface. In case of rain, please verify the effective drying of the product before moving to the next coat.
3. Continue the application in subsequent coats until reaching the expected yield and a minimum total thickness of 1.5 mm to guarantee the waterproofing properties.

DRYING TIME

At 23°C (73.4°F) and relative humidity of 50% the product dries approximately in about 4 hours.

- *Ultragum* resists to superficial phenomenon of fading and corrugation, caused by high relative humidity, fog or dew after only 30 minutes from the application.
- Complete drying time of *Ultragum* is influenced by environmental relative humidity level and temperature conditions and may change significantly.
- If applied with a yield higher than expected, drying time can significantly increase.

SUGGESTIONS

- Do not apply at temperature lower than +5°C (+41°) and higher than +35°C (+95°), with imminent threat of rain or frost.
- Protect the product from pouring rain until it is completely dry.
- During summer season apply the product in the cooler hours of the day, away from sunlight.
- Before applying the product, is recommended to cover every element that must not be coated.

CLEANING

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

SAFETY

While handling always use personal protective equipment and see product safety data sheet.

Waterproofing - liquid

