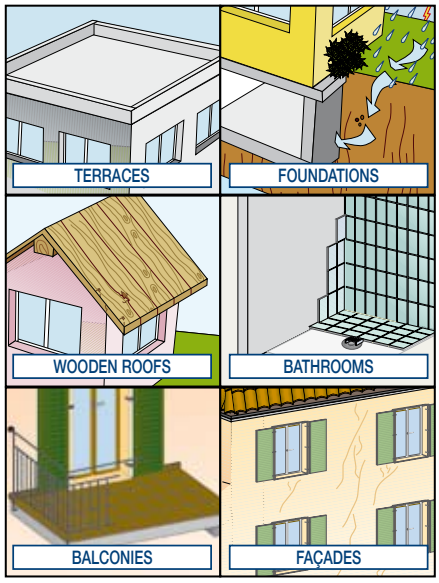
UNOLASTIC

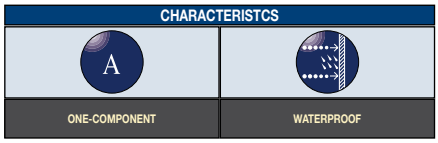
ONE-COMPONENT WATER-BASED BITUMEN ELASTOMERIC WATERPROOFING. THE PRODUCT CAN BE COATED WITH CEMENT MORTAR

PROBLEM

WATERPROOFING VARIOUS TYPES OF STRUCTURES WITH LIQUID PRODUCTS



SOLUTION



UNOLASTIC is a ready-to-use black creamy paste in aqueous solution obtained by mixing special synthetic elastic resins, special bitumen and quartz filler. Once the paste thus obtained has dried, it becomes highly elastic and adherent to the support and outstandingly waterproof.

FIELDS OF USE

UNOLASTIC is used to waterproof concrete or tiled floors and walls, cement based surfaces in general or plastered surfaces. It is used to waterproof concrete slabs, foundations, tricky parts of roofs or terraces, vases, flower pots, balconies, bathrooms, saunas, shower cubicles, wood and plasterboard etc.
UNOLASTIC can be used as an elastic lining to waterproof slightly deteriorated concrete and plaster, protecting it against aggressive atmospheric gases such as CO_2–SO_2.

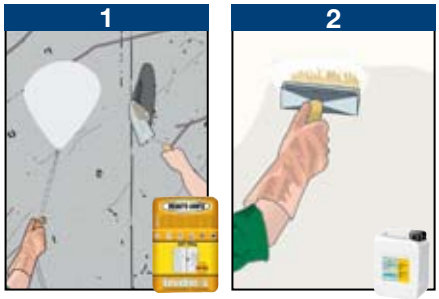
ADVANTAGES

- **Non-toxic water-based product**
- **Excellent adhesion to various supports**
- **Excellent resistance to water**
- **Excellent elasticity**
- **Can be coated with cement-based mortar**

METHOD OF USE

• SUBSTRATE PREPARATION
Concrete surfaces must be perfectly clean and free from dust, oil, crumbling/loose parts and must be dry. You therefore need to remove all loose and inconsistent parts with a chisel, brush or water cleaner. Deteriorated parts must be reinstated with special mortars of the RESISTO line to obtain an even and compact surface (**1**).
Once the surfaces have been reinstated and cleaned, apply the water-based primer PRIMER FIX using a brush, roller or spray gun in a ratio of 300 g/m² (**2**).

(to be continued)



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Construction Systems and Products

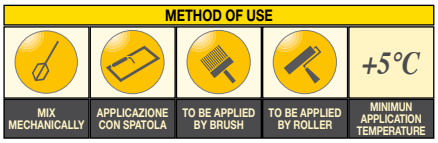
4th DIVISION
2nd LINE

5th DIVISION

Damp supports (humidity >5%) must be treated with the special epoxy cement primer EPOSTOP ABC to act as a vapour barrier to prevent pieces coming away and bubbles from forming, for a consumption of 700 g/m².
Metal elements incorporated in the surface to be treated must be de-greased, free from rust and passivated with STRATO AB.
Tiled surfaces must be solid, de-greased and already pitched. Tiles that could possibly detach must be removed and their cavity grouted with quick-setting cement mortar.
Once the grouting has dried, apply the water-based primer PRIMER FIX using a brush, roller or spray gun in a ratio of 300 g/m².
Structural expansion joints must be designed based on the dimensions and on strain.
Fractioning and perimeter joints must be sealed using the sealing tape COVERBAND (**3**) fixed with **UNOLASTIC** or with adhesive ELASTOCOL AB.

• **APPLICATION**

The product is ready-to-use, all it needs is stirring (**4**). It is applied "as is" without diluting making sure to apply it evenly over the surface.



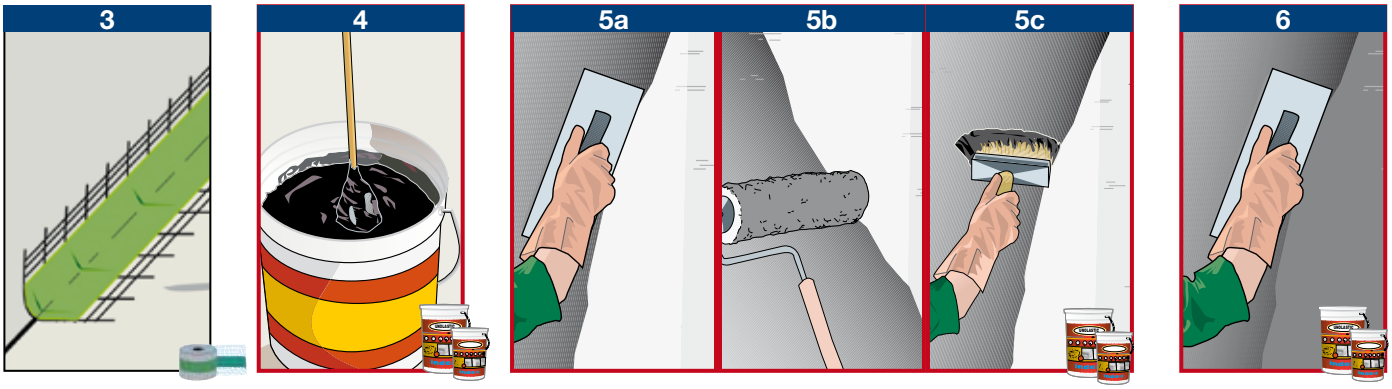
24 hours after applying the primer, apply **UNOLASTIC** (**5**) with a spatula, brush or roller and bury the RINFOTEX PLUS reinforcement in the first coat where necessary.
The reinforcement overlaps must be 10 cm.
The parts turned over on the wall must exceed the height of the skirting board or beyond the maximum contact level with water.
Internal and external corners will be prepared by cutting shaped reinforcement gussets.
The second coat can be applied fresh-over-fresh if the first coat has been reinforced, otherwise the day after if it has not (**6**).
The reinforcement is always to be turned up the vertical lines making sure the fabric adheres perfectly in the corners and edges with special attention to impregnation.
<u>For surfaces of more than 10 m² or for supports subject to strain, you are recommended to reinforce the product with RINFOTEX PLUS.</u>
UNOLASTIC is applied with a brush, large brush, roller, spatula or spray gun with dedicated equipment, both on walls and floors.
To obtain an even layer when applying with a spatula, you are recommended to use a serrated edge spatula with teeth of 4 mm and then go over the surface again with the smooth part to obtain an even layer of approximately 2 mm.
After 4 days at 20°C the material is dry and ready for seal tests, if necessary, or it can be coated with cement-based material such as adhesives for tiles in the case of bathrooms, terraces etc. or with cement-based protection plaster in the case of foundations or with cement-based bedding mortar for roof tiles or shingles in the case of pitched roofs, or painted with ELASTOLIQUID S for covering cracks in facades.

COVERAGE

3 Kg/m² for a dry film of 2.0 mm (do not apply in layers of more than 2 mm per coat)

WARNINGS

- The product is not frost proof. It cannot be used again if it freezes.
- Do not apply in extremely hot and cold conditions.
- Do not apply in bad weather conditions because the damp layer could be washed away with rainwater or ruined by dew or frost.
- Minimum application temperature +5°C.
- It is not suitable for painting concrete drinking water storage tanks.
- **UNOLASTIC** must be stored in a cool place at temperatures of above +5°C and protected against direct sunlight.
- It can also be applied on slightly damp surfaces (humidity <5%).



DETAILS

EXPANSION JOINT

WALL SKIRTING

REINFORCEMENT OVERLAP

LABORATORY TESTS

ADHESION TO CONCRETE

ADHESION TO GLASS

ADHESION TO STEEL

WATERTIGHTNESS

CRACK BRIDGING

ULTIMATE ELONGATION

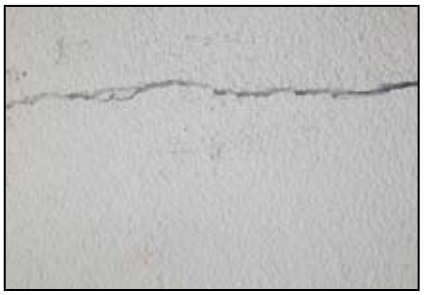
FLEXIBILITY TO LOW TEMPERATURE

FIELDS OF USE - REFERENCES

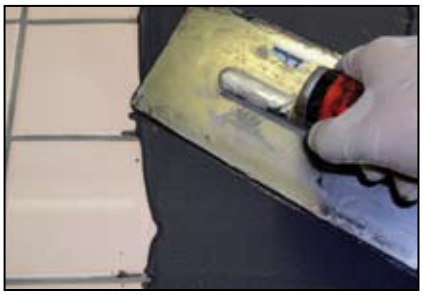
FOUNDATIONS

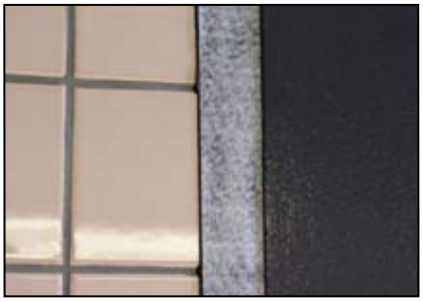
WOODEN ROOFS

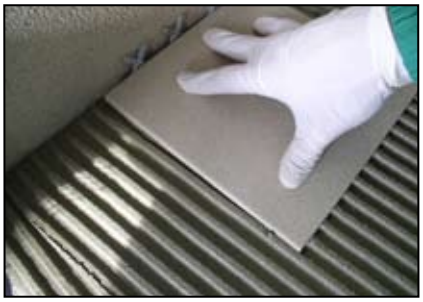
FISSURES



FLOOR RESTORATION







TECHNICAL CHARACTERISTICS

	UNOLASTIC
Aspect	paste
Colour	black
Specific weight (volume mass) (UNI EN ISO 2811-1)	1.50±0.05 kg/litre
Solid content in weight (UNI EN ISO 3251)	78±4%
pH	9-9.5
Adhesion • to concrete after 28 days • to concrete after water immersion • to concrete after heat action • to concrete after frost/thaw cycles • to glass • to steel • to wood	 >1.0 N/mm² >0.5 N/mm² >2.0 N/mm² >0.5 N/mm² >1.0 N/mm² >2.0 N/mm² >1.0 N/mm²
Resistance to vapour diffusion	μ > 5,000
Ultimate elongatin • at 23°C - R.H. 50% (NFT 46002) • with reinforcement (EN 12311-1)	 240±40% 70±15%
Ultimate tensile strength • at 23°C - R.H. 50% (NFT 46002) • with reinforcement (EN 12311-1)	 1.40±0.3 MPa 520±50 N
Resistance to static loading • method A (EN 12730) • method B (EN 12730)	 45 kg 25 kg
Resistance to impact • method A (EN 12691) • method B (EN 12691)	 1,000 mm 1,000 mm
Flexibility to low temperature (UNI 1109)	–10°C
Water absorption 24 h (internal method)	<1%
Watertightness (EN 1928)	>500 KPa
Crack bridging test (internal method)	>3 mm
Flammability	non- inflammable
Drying time between coats	24 hours
Drying time (20°C - U.R. 65%) • tacky free time • dry time	 6 hours 4 days
Shelf life in original packaging	12 months

SAFETY REGULATIONS

- Wear suitable masks when mixing to protect the respiratory tract.
- Wear gloves and goggles to protect hands and eyes.
- Keep the workplace well aired
- In case of contact with eyes, wash immediately with plenty of water

PACKAGING

UNOLASTIC

- Pail 20 kg
- Bucket 10 kg

- FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE
- IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS

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Environmental Management Systems index UNI EN ISO 14001

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