

ULTRA FLEX

HIGH PERFORMANCE
LIQUID WATERPROOFING
SYSTEM

CE



www.ultra-flex.com



High performance
with cost-efficiency
and effectiveness



Certified for a life in excess of 25 years

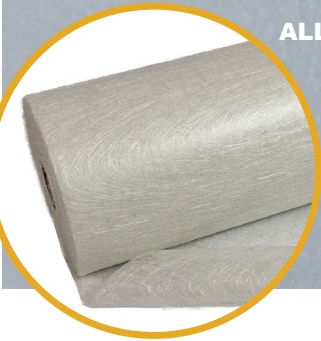
Green Roof approved

NO Primer needed
Waiting times
Shrinkage

SUITABLE FOR ALL KIND OF SUBSTRATES / IDEAL FOR
COMPLICATED ZONES AND DETAIL AREAS / EASY TO
APPLY / READY TO USE /

ALL KIND OF ROOFS: FLAT, INCLINED, INVERTED
AND GREEN ROOFS /

DIFFERENT KIND OF FINISHINGS /
SUITABLE FOR PAVING / SUITABLE FOR THE
WATERPROOFING OF AQUATIC AREAS WITH
ULTRATOP WR / TRAFFICABLE



ULTRAFLEX is a high performance polyurethane liquid membrane system for waterproofing all kind of roofs (flat, inclined, inverted green roofs), balconies, terraces, walkways, gutters and much more besides.

Due to its high adherence, no primer is needed. Application without waiting times between coats (wet-on-wet system). No product shrinkage. Multiple finishings.

ULTRAFLEX is ETE (European Technical Evaluation) and BBA (British Board of Agreement) certified for a lifespan in excess of 25 years. NHBC and Green Roof Approval.

PROPERTIES	VALUES	METHOD
Specific gravity (kg/m ³)	1.320 ~ 1.420	DIN 53 217
Viscosity at 23°C	2.650 cps	ASTM D2196-86
Dry extract	>90	EN 1768
Flash Point (°C)	42°C	ASTM D93
Ashes at 450°C % weight	42 ~ 47%	EN 1879
Temperature	2°C ~ 35°C	
Hardness Shore A at 23° C	>75	
Tensile strength	Reinforced with Ultraflex matting >10 MPa*	
Dry time	Touch dry: 2 to 8 h; Fully trafficable in 24 horas	
Overcoat time	±5 ~ ±48 horas	
Elongation	Reinforced with Ultraflex matting <100%*	
Water vapour resistance	μ=2.500	
Concrete adherence at 23°	>2 MPa	

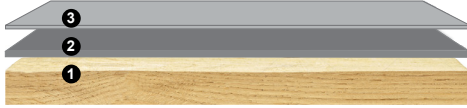
* UN-REINFORCED: Tensile Strength >3MPa. Elongation >400%
Please refer to application guide for further information

APPLICATION SYSTEMS



FLAT ROOF

1. Substrate preparation / 2. ULTRAFLEX Membrane
3. ULTRATOP Topcoat



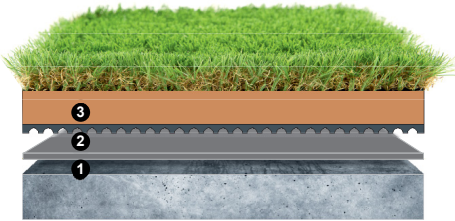
WOODEN FLAT ROOF

1. Substrate preparation / 2. ULTRAFLEX Membrane
3. ULTRATOP Topcoat



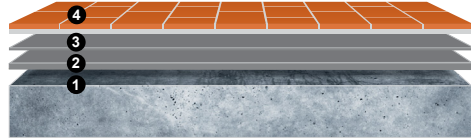
REHABILITATION OF ROOFS

1. Substrate preparation / 2. ULTRAFLEX Membrane
3. ULTRATOP Topcoat



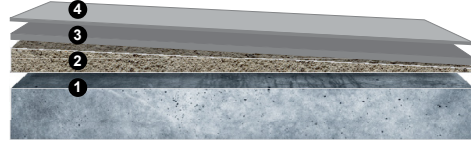
GREEN ROOF

1. Substrate preparation / 2. ULTRAFLEX Membrane
3. Green roof finishing



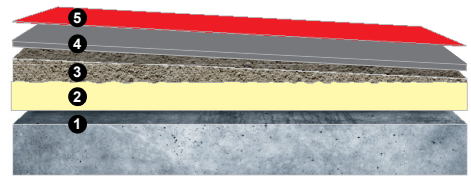
PAVED ROOF

1. Substrate preparation / 2. ULTRAFLEX Membrane
3. Thin layer of ULTRAFLEX broadcasted with chippings / 4. Pavement installation



INCLINED ROOF

1. Substrate preparation / 2. Mortar pitch
3. ULTRAFLEX Membrane / 4. ULTRATOP Topcoat



TRADITIONAL ROOF (ISOLATION)

1. Substrate preparation / 2. PU Foam
3. Mortar pitch / 4. ULTRAFLEX Membrane
5. ULTRATOP Topcoat

RANGE
ULTRAFLEX



ULTRATOP TOPCOAT (DEPENDING ON FINISHING)

ULTRATOP is an aliphatic polyurethane resin to be used as topcoat for the protection of the liquid aromatic polyurethane membrane **ULTRAFLEX**.

Once applied, **ULTRATOP** forms a continuous and flexible film, with a glossy finish and excellent adherence and mechanical properties. These characteristics, along with its high resistance to abrasion and stress, make it resistant to weathering, extreme temperatures and UV radiation which makes **ULTRATOP** an ideal finish coat for balconies, walkways and other applications in flat roofing.

Yield	±150 g/sqm/coat
Tack free time at 23°	±25 minutos
Recoat time at 23°	1 ~ 48 horas
Application method	By brush, roller or "airless" equipment
Coverage per drum	30 sqm

Colours: Light Grey (RAL 7042) y Red Tile (RAL 8004) / Other colours available under demand.



RAL 7042



RAL 8004

APPLICATION GUIDE

BENEFITS & PRODUCT INFORMATION

▲ ETE (Evaluación Técnica Europea) and BBA (British Board of Agrément) certified for a life in excess of 25 years. NHBC and Green Roof approval.

▲ **Ultraflex** can be used on new and existing roofs and it is ideal for the waterproofing of all kind of roofs (flat, pitched, inverted and green roofs), terraces, balconies, walkways, and aquatic areas such as gutters, pools, deposits, etc.

▲ Ready to use straight out of the tin, application with solvent resistant roller.

▲ No primer needed. **Ultraflex** has an excellent adhesion to different substrates: plywood, bitumen membranes asphalt, metals, brick, concrete, wood, etc.

▲ Wet-on-wet system application, permitting a quicker and easier application. Use fully reinforced with **Ultraflex Matting**.

▲ Can be used all year round - moisture curing.

▲ Fully trafficable when cured.

▲ Instantly rain resistant, once the matting is encapsulated.

▲ Once installed, forms a seamless membrane.

▲ No product shrinkage. Any **Ultraflex** left after the application can be kept in air tight plastic tubs and used weeks later. It may create a skin that can be removed for further uses.

▲ **Ultraflex** can be either paved or left as it is, in which case we recommend to cover with **Ultratop** topcoat.

▲ **Always use PU based mastics. Do not use silicone sealants.**

▲ **Fresh concrete must be cured for 28 days before the Ultraflex application.**

▲ **On EPDM and TPO it is recommended to install patch test to check compatibility.**

ULTRAFLEX APPLICATION INSTRUCTIONS

⚠️ Apply when ambient temperature is minimum of 2 °C and rising, and not exceeding 30°C.

⚠️ Ensure substrate is in good condition, dry, clean and free from dust, moss or lichen, or any other contaminants.

⚠️ All edge trims to be fixed to substrate prior to application of **ULTRAFLEX**.

⚠️ Open tin and mix thoroughly before using.

⚠️ Apply **ULTRAFLEX** straight out of the can onto the substrate using a solvent resistant roller. Dry roll **ULTRAFLEX** a **ULTRAFLEX** into the product until the **Ultraflex** is drawn through, then immediately apply another coat of **ULTRAFLEX** ensuring the matting is fully embedded avoiding any pinholes.

⚠️ It is advised to start at the perimeter of the area including upstands to a minimum of 150mm (if possible), ensuring the matting overlaps any trims (including fixings)/ joints/ change of material by 50mm. Treat the same way all the detail areas such as gutters, corners, etc.

⚠️ **ULTRAFLEX** is self-terminating, if brickwork is in good condition, strike a line using tape on the brickwork to coat up to (important: when the **Ultraflex** has been installed ensure the tape is pulled before the **Ultraflex** is dry). If the brickwork is in poor condition a termination bar or flashing is required.

⚠️ Infill the remaining field area using the same method as above using **Ultraflex** matting, at a minimum coverage rate of 1.5kg per sqm. The whole area including trims must be coated to form a continuous seamless membrane. Please take time to make sure no pin holes exist. Drying time will be approx. 2-8 hours depending on weather, fully cured in 24 hours.

⚠️ **ULTRAFLEX**: A drum of **Ultraflex** will cover 8 to 10 sqm depending on the surface.

⚠️ **ULTRATOP**: A drum of **Ultratop** will cover 8 to 10 sqm depending on the surface.



MULTIPLE FINISHING:

9. ULTRATOP (exposed finishing): apply a coat of **Ultratop**, single component aliphatic polyurethane topcoat, to obtain a glossy finish, reinforcing the resistance of the **Ultraflex** membrane to weathering, extreme temperatures and UV radiation. Apply **ULTRATOP** once the **Ultraflex** membrane is completely cured and before 48 hours from its application.

10. ULTRATOP WR (for aquatic zones): apply 1 coat of **Ultratop WR**, two-component aliphatic polyurethane topcoat as protection of the **Ultraflex** membrane in direct and permanent water contact situations (swimming pools, etc).

11. PAVED: Once **Ultraflex** is cured, apply a thin layer and broadcast chippings to increase the posterior pavement adherence. Use tile adhesive cement to install the pavement.

STORAGE

▲ Store **Ultraflex** unopened in original container in a cool dry place within 5°C - 25°C, out of direct sunlight.

▲ Protect from frost. Keep away from sources of ignition.

▲ For transportation purposes ensure that product is upright and the lid fully closed.

