ULTRA FLEX

HIGH PERFORMANCE
LIQUID WATERPROOFING
SYSTEM

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

CE

BBA APPROVAL INSPECTION TESTING CERTIFICATION

ETA

CERTIFICADO ETE Y BBA 25 AÑOS

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. Aplication without waiting times between coats (wet-on-wet system). No product shrinkage. Multiple finishings.

ULTRAFLEX is ETE (European Tecnical 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/m³)	1.320 ~ 1.420	DIN 53 217
Viscosity at 23ºC	2.650 cps	ASTM D2196-86
Dry extract	>90	EN 1768
Flash Point (ºC)	42ºC	ASTM D93
Ashes at 450ºC % weight	42 ~ 47%	EN 1879
Temperature	2ºC ~ 35ºC	
Hardness Shore A at 23º 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 23º	>2 MPa	

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

APPLICATION SYSTEMS

FLAT ROOF

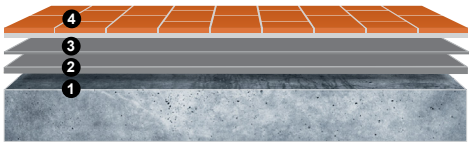
1. Substrate preparation / 2. ULTRAFLEX Membrane
3. ULTRATOP Topcoat

WOODEN FLAT ROOF

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

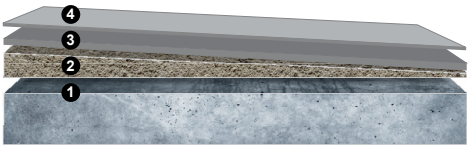
REHABILITATION OF ROOFS

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



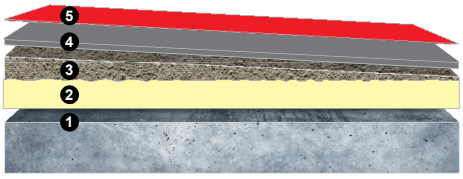
PAVED ROOF

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

GREEN ROOF

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

ULTRATOP TOPCOAT (DEPENDING ON FINISHING)

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

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

Yield	±150 g/sqm/coat
Tack free time at 23º	±25 minutos
Recoat time at 23º	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

ULTRA FLEX

BENEFITS & PRODUCT INFORMATION

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

▲ **Ultraflex** can be used on new and exisiting 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 membranesm asphalt, metals, brick, concrete, wood, etc.

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

▲ Can be used all year round - moisture curing.

▲ Fully trafficable when cured.

▲ Instantly rain resistant, once the mating 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 recomend 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

1. Apply when ambient temperature is minimum of 2 ºC and rising, and not exceeding 30ºC.

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

3. AII edge trims to be fixed to substrate prior to application of **Ultraflex**.

4. Open tin and mix thoroughly before using.

5. Apply **Ultraflex** straight out of the can onto the substrate using a solvent resistant roller. Dry roll **Ultraflex matting** 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.

6. 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.

7. **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.

8. 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.

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

Please note this coverage may be affected by the contractor experience in applying Ultraflex system

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 completelly 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 (swiming pools, etc).

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

STORAGE

▲ Store **Ultraflex** unopened in original container in a cool dry place within 5ºC - 25ºC, 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.

EAGLE

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www.eagle-waterproofing.com

Ultraflex Installation Specification for overlay on Asphalt

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. Clean and dry the roof. A Jetwash is recommended but in any case no chemicals should be used to clean the roof.
3. Inspect the roof to ensure it is structurally sound. If necessary take the advice of a qualified professional. Only proceed if the roof is sound.
4. Seal any splits, cracks or holes using Ultraflex gap filling adhesive/sealant.
5. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
    - Note - this can be left to cure before continuing but it doesn't have to be.
    - More details of the installation method can be found on our youtube channel here.
    - Tixal can be added to Ultraflex to help with the upstands and prevent the product from running.
6. Ultraflex to be applied wet on wet/fully reinforced to the main field area at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Ensure that the matting overlaps the above detail areas by at least 50mm and left to cure. Minimum 24 hours.
7. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
8. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.
    - Note – For heavily trafficked areas such as balconies or walkways finish with Ultratop WR instead of Ultratop.
    - A non-slip finish can be applied by broadcasting slate granules or kiln dried sand into the topcoat whilst wet.
    - For an extra durable finish the non-slip coating can be sealed in using clearcoat or another coat of Ultratop WR

Expected Coverage

- Ultraflex 8-10M2 per 15Kg tin (Approx)
- Ultratop 30M2 per 5Kg tin (Approx)
- Ultratop WR 25M2 per 5Kg set (Approx)
- Tixal 1L treats up to 3 x 15Kg Ultraflex (Depending on consistency required)
- Clearcoat 15M2 per 5L tin (Approx – When used to seal anti-skid)

Ultraflex Installation Specification for overlay on Concrete

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. Clean and dry the roof. A Jetwash is recommended but in any case no chemicals should be used to clean the roof.
3. Inspect the roof to ensure it is structurally sound. If necessary take the advice of a qualified professional. Only proceed if the roof is sound.
4. Seal any splits, cracks or holes using Ultraflex gap filling adhesive/sealant.
5. Prime the area with Ultraprime and leave to cure. Minimum 24 hours. Approx coverage rate 100-150G/M2
6. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
    - Note - this can be left to cure before continuing but it doesn't have to be.
    - More details of the installation method can be found on our youtube channel here.
    - Tixal can be added to Ultraflex to help with the upstands and prevent the product from running.
7. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
8. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
9. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.
    - Note – For heavily trafficked areas such as balconies or walkways finish with Ultratop WR instead of Ultratop.
    - A non-slip finish can be applied by broadcasting slate granules or kiln dried sand into the topcoat whilst wet.
    - For an extra durable finish the non-slip coating can be sealed in using clearcoat or another coat of Ultratop WR

Expected Coverage

- Ultraflex 8-10M2 per 15Kg tin (Approx)
- Ultraprime 30M2 per 5Kg tin (Approx)
- Ultratop 30M2 per 5Kg tin (Approx)
- Ultratop WR 25M2 per 5Kg set (Approx)
- Tixal 1L treats up to 3 x 15Kg Ultraflex (Depending on consistency required)
- Clearcoat 15M2 per 5L tin (Approx – When used to seal anti-skid)

Ultraflex Installation Specification for overlay on felt

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. Using a stiff brush sweep all loose mineral from the felt.
3. Clean and dry the roof. A Jetwash is recommended but in any case no chemicals should be used to clean the roof.
4. Inspect the roof to ensure it is structurally sound. If necessary take the advice of a qualified professional. Only proceed if the roof is sound.
5. Inspect the felt to ensure it is well adhered to the roof. Any loose felt should be removed and the area repaired before liquid coating.
6. Seal any splits, cracks or holes using Ultraflex gap filling adhesive/sealant.
7. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5-2KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
    - Note - this can be left to cure before continuing but it doesn't have to be.
    - More details of the installation method can be found on our youtube channel here.
    - Tixal can be added to Ultraflex to help with the upstands and prevent the product from running.
8. Ultraflex to be applied wet on wet/fully reinforced to the main field area at a rate of 1.5-2KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Ensure that the matting overlaps the above detail areas by at least 50mm and left to cure. Minimum 24 hours.
9. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
10. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.
    - Note – For heavily trafficked areas such as balconies or walkways finish with Ultratop WR instead of Ultratop.
    - A non-slip finish can be applied by broadcasting slate granules or kiln dried sand into the topcoat whilst wet.
    - For an extra durable finish the non-slip coating can be sealed in using clearcoat or another coat of Ultratop WR

Expected Coverage

- Ultraflex 6-8M2 per 15Kg tin (Approx)
- Ultratop 25-30M2 per 5Kg tin (Approx)
- Ultratop WR 25M2 per 5Kg set (Approx)
- Tixal 1L treats up to 3 x 15Kg Ultraflex (Depending on consistency required)
- Clearcoat 15M2 per 5L tin (Approx – When used to seal anti-skid)

Ultraflex Installation Specification for overlay on GRP

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. Clean and dry the roof. A Jetwash is recommended but in any case no chemicals should be used to clean the roof.
3. Inspect the roof to ensure it is structurally sound. If necessary take the advice of a qualified professional. Only proceed if the roof is sound.
4. Remove any loose GRP coating and make any necessary repairs to the substrate.
5. Seal any splits, cracks or holes using Ultraflex gap filling adhesive/sealant.
6. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
    - Note - this can be left to cure before continuing but it doesn't have to be.
    - More details of the installation method can be found on our youtube channel here.
    - Tixal can be added to Ultraflex to help with the upstands and prevent the product from running.
7. Ultraflex to be applied wet on wet/fully reinforced to the main field area at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Ensure that the matting overlaps the above detail areas by at least 50mm and left to cure. Minimum 24 hours.
8. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
9. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.
    - Note – For heavily trafficked areas such as balconies or walkways finish with Ultratop WR instead of Ultratop.
    - A non-slip finish can be applied by broadcasting slate granules or kiln dried sand into the topcoat whilst wet.
    - For an extra durable finish the non-slip coating can be sealed in using clearcoat or another coat of Ultratop WR

Expected Coverage

- Ultraflex 8-10M2 per 15Kg tin (Approx)
- Ultratop 30M2 per 5Kg tin (Approx)
- Ultratop WR 25M2 per 5Kg set (Approx)
- Tixal 1L treats up to 3 x 15Kg Ultraflex (Depending on consistency required)
- Clearcoat 15M2 per 5L tin (Approx – When used to seal anti-skid)

Ultraflex Installation Specification for a new roof

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. 18mm T&G OSB is the recommended substrate. Square edged OSB can be used on the condition that every joint is sealed using Ultraflex gap filling adhesive & Sealant prior to liquid coating.
3. Timber fillets to be installed at the base of all upstands. The above sealant should be used at the top and bottom of the fillets.
4. Ultraflex to be applied wet on wet/fully reinforced to the upstands and detail areas first at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas ensuring that the matting laps at least 50mm onto the field area.
    - Note - this can be left to cure before continuing but it doesn't have to be.
    - More details of the installation method can be found on our youtube channel here.
    - Tixal can be added to Ultraflex to help with the upstands and prevent the product from running.
5. Ultraflex to be applied wet on wet/fully reinforced to the main field area at a rate of 1.5KG/M2, ensuring the matting is fully encapsulated and wetted out with no pinholes. Ensure that the matting overlaps the above detail areas by at least 50mm and left to cure. Minimum 24 hours.
6. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
7. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.
    - Note – For heavily trafficked areas such as balconies or walkways finish with Ultratop WR instead of Ultratop.
    - A non-slip finish can be applied by broadcasting slate granules or kiln dried sand into the topcoat whilst wet.
    - For an extra durable finish the non-slip coating can be sealed in using clearcoat or another coat of Ultratop WR

Expected Coverage

- Ultraflex 8-10M2 per 15Kg tin (Approx)
- Ultratop 30M2 per 5Kg tin (Approx)
- Ultratop WR 25M2 per 5Kg set (Approx)
- Tixal 1L treats up to 3 x 15Kg Ultraflex (Depending on consistency required)
- Clearcoat 15M2 per 5L tin (Approx – When used to seal anti-skid)

Ultraflex Installation Specification for Corrugated Sheets

1. Check the deck and ambient temperature. The installation temperature range is 2°C and rising and not exceeding 30°C.
2. Clean and dry the roof. No chemicals should be used.
3. Seal all laps and around all fixings using Ultraflex gap filling adhesive/sealant.
4. Seal any cracks or holes in the roof using Ultraflex gap filling adhesive/sealant.
5. Repair any larger defects with Ultraflex gap filling adhesive/sealant and a strip of Ultraflex, applied wet on wet/fully reinforced at a rate of 1.5KG/M2 ensuring the matting is fully encapsulated and wetted out with no pinholes. Use small strips of matting for these areas to create a bandage over the repair and leave to cure, minimum 24 hours.
6. Inspect the area for any pinholes or dryness. If any defects are found apply more Ultraflex to the area and leave to cure. Minimum 24 hours.
    - If unsure contact your local Eagle Waterproofing Representative for advice.
7. Mix Tixal with Ultraflex at a rate of approx. 300ml-500ml Tixal per 15Kg Ultraflex and apply over the whole roof, including over any repairs, at a rate of approx. 0.5-0.75Kg/M2 and leave to cure. Minimum 24 hours.
8. Once cured, repeat step 6 with a 2nd coat, again mixed with Tixal at the same rate and leave to cure. Minimum 24 hours.
9. Finish with Ultratop – A thin coat to be painted on to act solely as a UV sealer at a coverage rate of 150G/M2.

Expected Coverage

- Ultraflex 20-30M2 per 15Kg tin (Approx)
- Ultratop 30M2 per 5Kg tin (Approx)
- Tixal 1L treats 2-3 x 15Kg Ultraflex (Depending on consistency required)