EAGLE GROUP | Advanced Waterproofing Systems

CoolTop

WHITE REFLECTIVE TOPCOAT

COOL ROOFING EFFECT

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CoolTop is a white, reflective, two-component, aliphatic polyurethane resin that forms a continuous, flexible, shiny, protective film and prevents the absorption of solar radiation, so its application to building rooftops protects against the accumulation of structural heat.

CoolTop can be applied as the final layer in the **ULTRAFLEX** polyurethane, **ULTRAFLEX PRO** polyurea or **ULTRAFLEX PRO HP** polyurea liquid membrane systems whenever a white finish with thermal barrier properties is required. Perfectly adaptable for use with other waterproofing systems, such as asphalt or bitumen sheets, synthetic membranes (PVC, EPDM, TPO, etc.), metal structures or other liquid systems. Once applied, **CoolTop** forms a very high strength yet flexible, continuous and protective film with outstanding chemical and mechanical properties.

CoolTop is totally UV resistant and designed to resist standing water and permanent contact with chlorinated water, salt water and/or acids. Easy to clean and maintain. Resistant to algae and mould growth. Can even bear traffic circulation.

Specially formulated to reflect solar rays and create a sustainable thermal barrier.

Resists to **stagnant water, solar exposure and saline environment**

Excellent **chemical and mechanical properties.**

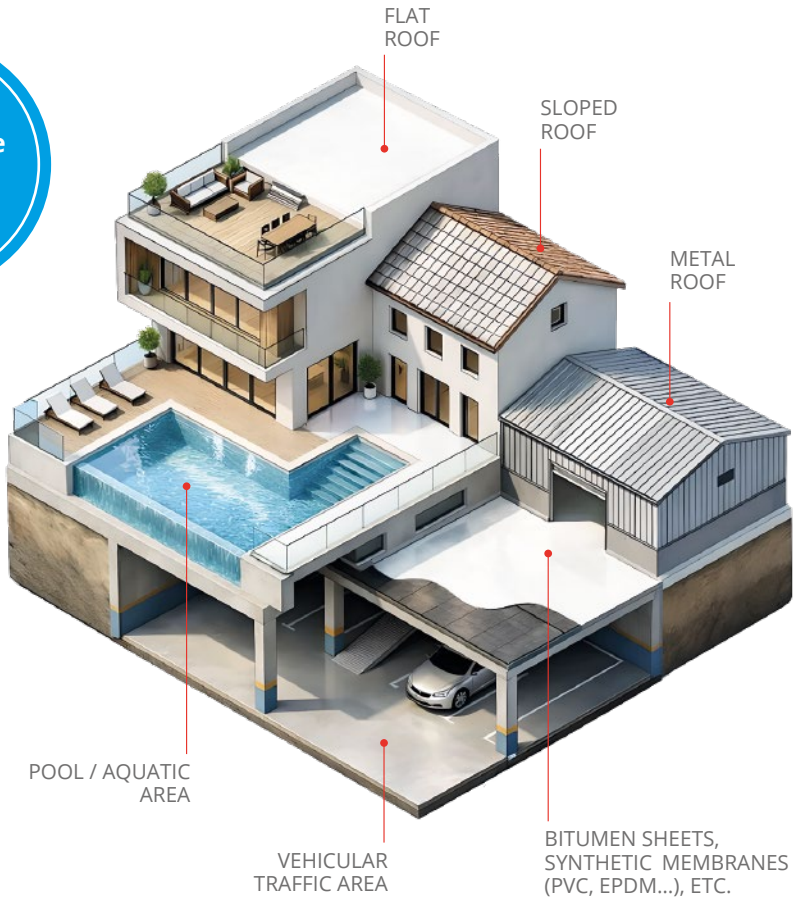
USES

- As a coating for waterproofing membranes to provide thermal insulation.
- As a covering on roofs to create a reflective barrier. Suitable for flooded roofs.
- Adjoining pavements with intense pedestrian and/or road traffic. Industrial warehouses, car parks, etc

Coverage	Approx. 200-250 g/m2
Drying time at 23ºC	2–4 hours
Time between coats at 23 °C	4–48 hours
Application method	Brush, roller or airless* sprayer
Coverage per pack	5 kg pack: 20 m^2 / 20 kg pack: 80 m^2
SRI	105 (ASTM E903-20)

* Maximum concentration of 5% when applied using a spray system.

Reduces the roof temperature up to **20ºC**



Reduces the inside temperature up to **6ºC**

THERMAL EFFICIENCY

- **Thermal Load** decrease
- Improve the **Confort** inside
- Contributes to **energy savings**
- Helps reduce the **Heat Island**

CoolTop Benefits

PROTECTION AND DURABILITY

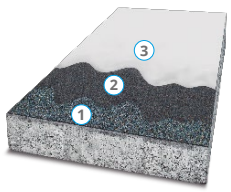
- **Protects** the building structure
- Extends the waterproofing membrane **durability**
- Excellent as a topcoat for **UltraFlex System**

APPLICATION SYSTEMS

UNIVERSAL SOLUTION: compatible with tiles and ceramics, bitumen sheets, PVC, EPDM Synthetics membranes, PU and PUA liquid membranes, adheres onto metals, asbestos, etc.

BITUMEN MEMBRANE

① Bitumen substrate
② Ultraprime REG/CT
③ **COOLTOP**

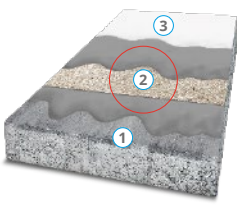


FIBER CEMENT OR METAL ROOF

① Substrate preparation
② **COOLTOP**

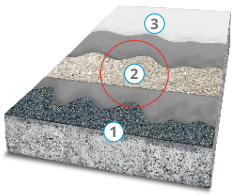
NEW CONSTRUCTION ROOF

① Substrate preparation
② WET-ON-WET Ultraflex
③ **COOLTOP**



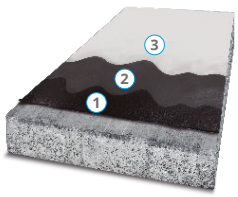
SELF-PROTECTED BITUMEN MEMBRANE

① Substrate preparation
② WET-ON-WET Ultraflex
③ **COOLTOP**



EPDM MEMBRANE

① EPDM substrate
② UltraPrime CT
③ **COOLTOP**



CoolTop

WHITE REFLECTIVE TOPCOAT

APPLICATION GUIDE

- **Previous considerations:**

  CoolTop should be applied to a dry, firm surface; avoid moisture due to capillary action or wicking. The treated surface must be at least 3°C above the dew point, the ambient temperature at least 8°C and the RH less than 80%.

  CoolTop should be applied in light coats with a roller, brush or airless* sprayer. Mix the two components thoroughly using a mechanical stirrer until it produces a uniform blend. Avoid the incorporation of air in the blend during the mixing process.

- **As aliphatic protection in ultraflex, ultraflex pro and ultraflex pro hp systems:**

  Apply CoolTop directly over the polyurethane or polyurea membrane in thin layers with a roller or airless* sprayer; be sure to allow the indicated time to elapse between coats to obtain optimal adherence. When applying CoolTop over an existing system, always remember to clean and sand the membrane's surface to open the pores, then apply a thin coat of ULTRAFLEX to act as a bonding bridge between the membrane and CoolTop. For aquatic applications, wait at least 1 week after application before filling the water feature or pool to ensure it is completely dry. CoolTop has very good resistance to permanent contact with water in swimming pools or aquariums with chlorine or cleaning salt (resistance to cleaning chlorine content 0.2~3.5 mg chlorine/ l water).

- **As a reflective thermal coating on roofs, in combination with other systems:**

  Asphalt or bitumen sheets, EPDM, TPO or FPO synthetic sheets: Clean the surface of the sheet before applying CoolTop; eliminate any dust, moss, oil, grease and any other debris that could weaken the system's adherence; for existing systems, repair and reattach the sheets, if necessary; apply a layer of UltraPrime CT over the old sheet as a bonding bridge; apply CoolTop in light coats using a brush or the airless* sprayer to obtain a flexible, protective, continuous, shiny, strong, and highly reflective film. One coat is usually enough. The coverage per kg varies depending on the porosity and/or roughness of the underlying surface. See the UltraPrime CT data sheet for more details.

  In bitumen sheets with mineral finish, we recommend to use UltraPrime REG to improve planimetry or UltraDry in case of humidity retained in the substrate. Check TDS for further details.

  PVC sheets or metal structures: Clean the surface thoroughly and eliminate any dust, moss, oil, grease and any other debris that could weaken the system's adherence; fix the edges and seal the joints well. Metal surfaces can be cleaned by sandblasting and/or using acetone and/or corrosion inhibitors, as required. Apply CoolTop in light coats using a roller or airless* sprayer.

  PAVEMENTS: Use a surface primer resin from the EAGLE range. We recommend UltraPrime PRO for concrete surfaces in good condition and UltraPrime REG to level and smooth the surface if there are cracks, depressions or chips. Use UltraDry for wet surfaces. Apply CoolTop in thin coats with a roller or airless* sprayer. For application to road traffic-bearing surfaces, apply two light coats, with aggregate dispersed between them as a nonslip treatment (approx. 200-250 g/m2/coat).

TECHNICAL CHARACTERISTICS

Density at 23ºC ISO 1675	±1,20-2 g/cm³
Dry extract ISO 1768	±73%
Adherence to concrete at 23ºC	>1,5 MPa (N/mm²)
Application temperature range	5ºC - 35ºC
Traversable at 23º C	±24 hours
Pot life	>1h

*Approximate values that may vary depending on the temperature, humidity and application method.

COVERAGE: A 5 kg pack of CoolTop covers a surface of approx. 20-25 m2, while a 20 kg pack covers around 80-100 m2 (application: 200–250 g/m2/coat).

FORMAT: Metal cans. Two-component. Packs of 5 kg (4.3 + 0.7 kg) and 20 kg (17.2 + 2.8 kg). White, reflective colour.

SHELF LIFE: 24 months from the date of manufacture. Store in a dry place at 5–35 °C.

HANDLING AND TRANSPORT: Respiratory protection: wear an approved air-purifying mask (when using a sprayer). Skin protection: Wear rubber gloves. Remove immediately in case of contamination. Wear clothes that cover the whole body. Wash thoroughly with soap and water after working with the product and before eating, drinking or smoking. Eye/face protection: Wear safety goggles to stop any splashes and exposure to airborne particulates (when using a sprayer). Waste: Avoid the generation of waste or minimise the amount produced and dispose of it at an authorised waste management centre.

RELATED PRODUCTS:

The CoolTop system can be complemented with the following products to protect or improve its mechanical and physical properties depending on its exposure, the desired finish, the type of substrate or the application method. / **UltraPrime CT:** Two-component epoxy resin as a bonding bridge on smooth bituminous sheets, on EPDM, TPO, FPO synthetic sheets / **Ultraprime REG:** Two-component epoxy resin for leveling and smoothing the substrate and for repairing blowholes on concrete surfaces. / **Ultraprime PRO:** Two-component low-viscosity resin to increase adherence and improve the planimetry of surfaces. / **UltraDry:** Resin to absorb substrate moisture or block moisture from negative pressure. / **UltraFlex:** Aromatic polyurethane membrane for manual application. / **UltraFlex PRO:** Aromatic pure polyurea membrane for manual and cold application. / **Ultraflex PRO HP:** Pure polyurea membrane for hot application. / **UltraFlex Grip:** Micronized plastic spheres to texturize surfaces and give them a non-slip finish. / **UltraFlex Sealant:** MS polymer mastic to seal, fill joints, treat perimeters and fix elements. / **Eco-cleaner:** biodegradable solvent for cleaning tools.

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