

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 HT** 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.

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 g/m ²
Drying time at 23 °C	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: 25 m ² / 20 kg pack: 100 m ²
SRI	105 (ASTM E903-20)

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

APPLICATION GUIDE

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 HT 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** is highly resistant to the cleaning products used in chlorinated water systems (always use automatic equipment). Maximum permissible chlorine concentration: 0.5 mg chlorine/litre of 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 EPD 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 EPD data sheet for more 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 moist 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 g/m²/coat).

TECHNICAL CHARACTERISTICS

PROPERTY	VALUE*
Density at 23 °C (ISO 1675)	±1.2–2 g/cm ³
Dry extract (ISO 1768)	±63%
Adherence to concrete at 23 °C	>1.3 MPa (N/mm ²)
Application temperature range	5–35 °C
Traversable at 23 °C	±24 hours
Pot life	>1 hour

* 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. 25 m², while a 20 kg pack covers around 100 m² (application: 150–200 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: Component A: 24 months and component B: 12 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 combined with the following products to protect or improve its mechanical and physical properties depending on its exposure, the desired finish, the type of surface and the application method. / **UltraPrime EPD:** Two-component epoxy resin that acts as a bonding bridge for asphalt or bitumen sheets and EPDM, TPO or FPO synthetic sheets. / **UltraPrime REG:** Two-component epoxy resin to level and smooth the substrate and repair any depressions in concrete surfaces. / **UltraPrime PRO:** Two-component, low-viscosity resin used to increase adherence and improve the evenness of the surface. / **UltraDry:** Resin that helps absorb moisture from the substrate. / **UltraFlex:** Aromatic polyurethane resin for manual application. / **UltraFlex PRO:** Pure aromatic polyurea membrane for cold, manual application. / **UltraFlex Grip:** Plastic microspheres to add texture to surfaces and give them a nonslip finish. / **UltraFlex sealant:** MS polymer putty for sealing, filling joints, treating edges and securing elements.