



CS 100 - UEAL

One-component, aliphatic, elastic polyurethane top coat

Product

CS 100 - UEAL is a one-component elastic polyurethane coating, which contains special fillers that upon combination with small amount (5-10%) of special pigment paste offer an excellent hiding power. This allows a lower consumption of material and omission of a second coat (for simple UV protection, not additional traffic resistance) resulting in overall cost reduction. It is based on pure elastomeric and hydrophobic polyurethane resin, which results in very good mechanical, chemical, thermal, UV and natural element resistance properties.

Apply with brush, roller or airless spray in one or two coats. Minimum consumption per coat: 0.200 kg/m².

CS 100 - UEAL is part of the **CS 100 - U** system and offers enhanced UV resistance and colour protection.

Primary applications

- ✓ Top-coating of **CS 100 - U** products.
- ✓ Top-coating flooring applications.

Advantages

- ✓ Excellent hiding power even in one coat
- ✓ Traffic resistant
- ✓ Excellent resistance to chemicals and mechanical stresses (high tensile strength and abrasion resistance)
- ✓ Excellent heat and UV resistance, it will not yellow or soften up to 80 °C. Coating keeps its elasticity even down to -40 °C
- ✓ Strong and uniform adhesion on almost any type of substrate
- ✓ Highly hydrophobic
- ✓ Available range of compatible pigment pastes in many colours.



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TECHNICAL DATA

Packaging (kg)			Color	
1	5	20	White	Grey
Recommended Thickness			Neutral Version Upon Request (for further pigmentation)	
0.1 mm per coat (min)			Shelf Life	
Mix Ratio by volume			Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.	
N/A				
<p>CS 100 -UEAL complies with the following: ETAG 005, Part 1 & Part 6 Liquid Applied Roof Waterproofing Kit, based on Polyurethane DIN 53505 / ISO R868, EN-ISO-527-3, DIN 53217 / ISO 2811</p>				
Liquid				
Flash Point (°C) ASTM D93	Viscosity (BROOKFIELD) - cP ASTM D2196-86		Density (kg/l) ASTM D1475	
-	350-550		+/- 1.15	
Tack free time, @77°F (25 °C) & 55% RH	Recoating Time (hours)			
6-9 hours	24			
Membrane				
Service Temperature			-40°C to 80°C	
Max shock temperature			200°C	
Curing Details	Foot traffic		12-24 hours	
	Light traffic		3 days	
	Full cure and chemical resistance		7 days	
<p><i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i></p>				



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<u>PROPERTIES @ 23°C</u>	
Adhesion to Concrete (N/mm2) ASTM D4541	Water Vapor Transmission (gr/m2.hr) ASTM E96
-	0.85
Hardness (Shore D) ASTM D2240	Tensile Strength at Break (N/mm2) ASTM D412
35	>38
Percent Elongation (%) ASTM D412	Thermal resistance (100 days @ 80 °C) EOTA TR011
>350	passed
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C) ASTM G53	passed (2000 hours)

SURFACE PREPARATION

Clean the surface using a high-pressure washer, if possible. Remove oil, grease, cement laitance, any wax contaminants, loose particles. Further primer information available on request. The application surface must be dry.

MIXING

When stirring (or pigmenting) pay attention not to introduce air in the liquid, which could result in bubbling on the cured membrane. Stirring can either be done manually or with a low speed (300 rpm) mixer.

In case any small sediment appears in the pail after prolonged storage, you may homogenize it in the product with mechanical mixing.



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APPLICATION

When used as a topcoat for colour protection of CS 100 – U products, it is available in white or grey colour (may also come in a version that could be further pigmented with special pigment pastes). It must be applied within 24-72 hours from application of CS 100 – U products, depending on weather conditions.

Apply with brush, roller or spray in one or two coats. Do not exceed 48 hours between coats.

0.2-0.6 kg/m² in one or two coats (it will depend on traffic conditions).

CLEANING

Clean tools and equipment first with paper towels and then using pure xylene. Rollers will not be re-usable.

RESTRICTIONS

- Not recommended for:
- ✓ unsound substrates
 - ✓ application in thick coats
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HEALTH AND SAFETY

Contains volatile flammable solvents. Apply in well-ventilated, non-smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to ICR COATING SYSTEMS. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. ICR COATING SYSTEMS assumes no legal responsibility for the results obtained in such cases. ICR COATING SYSTEMS assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.
