



CS 100 – U61

One component, elastic, aliphatic, polyurethane liquid membrane

Product

CS 100 – U61 is a one component, fully aliphatic polyurethane liquid membrane, which is ideal for applications with color stability requirements in one single coat. The advantages of single coat application are labor cost savings and elimination of potential interlayer adhesion failures in multi-coat applications.

CS 100 – U61 is a self-leveling product which after curing creates a bubble free membrane that is recommended to be applied in one single coat.

The product will not discolor even if it is applied in dark colors; furthermore, in case it is applied in white color, it will enhance the solar reflectance for many years.

Apply using brush, roller or airless spraying. Minimum consumption: 1,5 Kg/m²

Primary applications

- Waterproofing and protection of:
- ✓ roofs,
 - ✓ light roofing made of metal or fibrous cement,
 - ✓ gypsum and cement boards,
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Advantages

- ✓ Excellent weather and UV resistance; will not discolor because it is fully aliphatic.
 - ✓ Excellent mechanical properties, high tensile and tear strength.
 - ✓ Highly hydrophobic.
 - ✓ Very elastic.
 - ✓ Low viscosity.
 - ✓ Very good chemical and hydrolysis resistance properties.
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TECHNICAL DATA

| Packaging (kg) | | | Color | |
|--|---|-------------------------------|--|--------------|
| 1 | 6 | 15 | White | Upon Request |
| Recommended Thickness | | | Shelf Life | |
| Main Membrane +/- 1.1 mm total | | | 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. | |
| Mix Ratio by volume | | | | |
| N/A | | | | |
| <p>CS 100 –U61 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/lt) ASTM D1475 | | |
| 42 | 4500-6500 | +/- 1.35 | | |
| Tack free time, @77°F (25 °C) & 55% RH | Recoating Time (hours) | | | |
| 4 hours | 6-24 | | | |
| 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 |
| >2.2 | 0.7 |
| Hardness (Shore A) ASTM D2240 | Tensile Strength at Break (N/mm²) ASTM D412 |
| 70 | 8 |
| Percent Elongation (%) ASTM D412 | Thermal resistance (100 days @ 80 °C) EOTA TR011 |
| >650 | 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 laitance, loose particles, oil, grease, wax contaminants, mould release agents, any cured membranes. Fill surface irregularities with appropriate products.

Concrete substrate conditions: Hardness: $R_{28} = 15\text{MPa}$, Humidity: $W < 10\%$, Temperature: $5\text{-}35\text{ °C}$,
Relative humidity: $< 85\%$.

Priming: Range of primers available for special conditions and substrates.

MIXING

Use a low speed (300 rpm) mixer. Add pure xylene at 10% for application by spraying.



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APPLICATION

Apply the material with roller, brush or airless spraying in one or two coats. Do not exceed 48 hours between coats. If more time passes (for example more than 4 days) or if you are unsure of the interlayer adhesion, please contact our technical department.

Minimum total consumption: 1.5 kg/m².

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.
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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 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.
