



TECHNICAL DATA SHEET

PRODOTTO

C40 TETTO REFLEX



**ELASTOMERIC MEMBRANE
PROOFING and REFLECTING THE SUNRAYS**

SPECIAL PRODUCT FOR PROFESSIONAL USE ONLY

COMPOSITION OF THE PRODUCT

Elastomeric proofing liquid membrane, C40 TETTO REFLEX is an aqueous emulsion of white milky colour formulated by special additives and fillers that give to the product a high capacity of reflecting the sunlight and a very good resistance in the infrared. The product can be also applied onto very wide surfaces and after drying, when correctly applied, resists perfectly to the water stagnation.

FIELD OF USE

1. PROTECTION AND PROOFING

It is the ideal product for protecting and proofing **bitumen/polymer membranes/sheaths** and flat and non-flat roofing of **cement, fibercement, concrete, metal roofing**; in the latter case, in order not to prejudice the effectiveness of the work, it is necessary to remove first any trace of rust and second apply an anticorrosion primer before the application of the product.

2. ENERGY SAVING

Its high reflecting capacity is ideal where thermal bridges must be improved and where must be decreased the heat radiated by the sun toward the interior of the building; by this way it is obtained an important saving of energy in the air conditioning of the buildings.

It also notably improves the energy efficiency of solar and photovoltaic panels eventually installed.

PREPARATION OF THE SURFACES

Clean well the support and remove any trace of friable parts, dust, alien or/and anti-adherent substances eventually with the help of a vacuum cleaner of good power. Before the application/treatment, it is basic to verify the presence of humidity into the background in order to avoid the formation of bubbles caused by the tension of vapour.

If suitable and quick devices for metering the humidity are not available, an effective and practical method is: apply, on a part of the surface exposed to the sun, a polyethylene sheet (plastic sheet) sealed by adhesive tape and after 24 hours verify the eventual formation of condensation. In absence of condensation, proceed to the application of C40 TETTO REFLEX otherwise, before applying the product, wait until the complete drying.

WARNING AND RECOMMENDATIONS

- *The product is ready-to-use: do not add additives, water, solvents or any other substance.*
- *When applied on bitumen/polymer membrane/sheath be sure that such membrane undergone at least 90 days of oxidation.*
- *Do not use if the container is damaged.*
- *Apply the product at temperature between +5°C and +40°C (41°F and 104°F)*
- *After the application, absolutely protect the surface for at least 24 hours from water, rain, snow.*
- *Do not apply in the presence of high night humidity.*

APPLICATION

The product is ready-to-use and it can be applied, on clean and dry support/background, by using a paint-brush or a roller with short bristles or brush.

Apply two coats of product (wait at least 24 hours between first and second coat) in order to have a homogeneous and ideal thickness for proofing

CONSUMPTION

1.4 - 1.6 kg/m²

PACKAGING

10 kg. - 20 kg.



STORAGE

Kept in dry place at temperature between +5°C and +35°C (41°F and 95°F), in unopened and sealed original packaging, sheltered from direct sunrays, the product has a stability of 12 months at least.
The product **CANNOT STAND THE FROST** (contains water)

SAFETY/DISPOSAL

Do not dispose of the product or/and the empty containers into the environment; disposal must be according the local or/and national rules and regulations in force.

For the rules concerning safety, for toxicological data and other physical characteristics of the product refer to the Material Safety Data Sheet.

PRODUCT DATA

| | |
|-------------------------------------|----------------------------------|
| Appearance | Fluid paste |
| Colour | White |
| Specific gravity at 20°C (68°F) | 1.20 ± 0.05 (g/cm ³) |
| Dry residue | 60 ± 3 % |
| pH | 9 ± 1 |
| Viscosity Brookfield at 20°C (68°F) | 24000 ± 2000 cPs |

PRODUCT PERFORMANCE

| | |
|--------------------------------|------------------------------|
| Operating temperature | +20°C - +80°C (68°F - 176°F) |
| Weather resistance | very good |
| UVrays resistance | very good |
| Resistance to water stagnation | very good |

ADEHSION AFTER 25 CYCLES SUN/RAIN (UNI 10686:1998)

| SUPPORT | Before cycles sun/rain | After cycles sun/rain | Required value |
|----------|---------------------------|--------------------------|------------------------|
| concrete | 1.3 N/mm ² | 1.04 N/mm ² | ≥1.0 N/mm ² |
| ceramics | 1.2 N/mm ² | 1.02 N/mm ² | ≥1.0 N/mm ² |

TENSILE STRENGTH and ELONGATION (DIN 53504:1985)

| | Breaking resistance (N/mm ²) | Elongation (%) |
|--------------|--|----------------|
| longitudinal | 3.00 | 175 |
| transverse | 2.78 | 128 |

RESISTANCE TO ABRASION ETAG 008

| Number of passages | Loss in weight % |
|--------------------|------------------|
| 10000 | 0 |

RESISTANCE TO ABRASION ETAG 008 after 24 hours of immersion in water with pH 5,5

| Number of passages | Loss in weight % |
|--------------------|------------------|
| 10000 | 0 |

RESULTS WITH REFERENCE TO STANDARDS ASTM E903-96, ASTM C1371, ASTM E1980

| | |
|--|-------|
| Solar reflectance index "SRI" | >107% |
| Solar reflectance factor "ρ _e " | 0.86 |
| Solar absorption factor "α" | 0.14 |
| Emissivity "ε" | 0.90 |

PRODUCT ACCORDING TO PRESCRIPTION OF EUROPEAN UNION DIRECTIVE 2003/53/CE

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A PRELIMINARY TEST IS ALWAYS RECOMMENDED BEFORE THE APPLICATION