

SUFFIX PUR 2CM

Polyurethane Based, Two Component,
Liquid Membrane Waterproofing Material

ISOLATIONS

Description of Product

SUFFIX PUR 2CM, two components. It is a solvent-free, elastic, polyurethane-based waterproofing material. When blunted, it forms a hydrophobic membrane with high mechanical strength. Since it does not contain solvents, it can be easily applied in closed areas.

Areas of Use

It can be used in water insulation of water tanks, channels, wet areas that will be left open under or above ceramic tiles, pools, and the mezzanine and roof sections of multi-storey car parks.

Advantages

Since it does not contain solvents, it can be easily applied in closed areas. It has hydrolysis resistance and hydrophobic character. It is the ideal solution for water tanks.

Application Information - Surface Preparation

Oil, wax, grease, water repellents, loose parts that do not adhere and can easily lift off, and dust that will weaken the adhesion forces on the surface should be cleaned and removed with a floor milling machine. New concrete must be at least 28 days old. The surface should be primed before application. The concrete surfaces to be applied must have at least the following standards:

Hardness: R28 = 15 Mpa

Temperature: 10-35 °C

Relative humidity: <80%

Packing

A set of 14 kg SUFFIX PUR 2CM;

Component A: 10 kg metal bucket packaging

Component B: 4kg metal bucket packaging

Preparation of Mixture

Component A and component B come in separate packages with pre-mixed proportions. Component A should be mixed quickly with a mechanical mixer, and the hardener (component B) should be added, paying attention to the mixing ratio. Component B is completely poured into component A and mixed. Mixing should be done with a mixer at 300 rpm. Two components! It is a product and should be prepared in the specified mixing ratio for the amount to be consumed, taking into account its pot life. In order to obtain a homogeneous mixture, care must be taken that the product temperature is not less than 15°C. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until they become homogeneous and allowed to rest for 3 minutes. Care should be taken to consume the prepared mixture within its pot life.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Viscosity	A Component: 2500 ± 500 B Component: 1500 ± 50	EN ISO 2555
Density (gr/cm ³)	A Component: 1,65 ± 0,05 B Component: 1,20 ± 0,05 A+B Mixture: 1,50 ± 0,05	EN ISO 2811-1
Solid Content (%)	A Component: 100 B Component: 100	EN ISO 3251

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 400	EN ISO 527 ASTM D 412
Breaking Strength	> 3	EN ISO 527 ASTM D 412
Tear Resistance (N/mm ²)	> 15	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	> 2	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	> 70	EN ISO 868 ASTM D 2240

Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Mixing Ratio	100:40	-
Pot Life (minutes)	20	A+B mixture in 100 grams
Touch Dry (hours)	8 - 12	-50% RH at 23°C
Full Curing (days)	7	
Waiting Between Layers (hours)	12 - 24	-

Selection of Primer

Highly absorbent surfaces such as concrete, cement screed or wood; Primer application can be started after being previously saturated with SUFFIX PRIMER PUR 1K.

Application

The mixture, which is ready for application, is applied with a notched trowel, airless spray or roller. The application time for new coat on top is at least 12 hours (20°C) and at most 24 hours. After more than 24 hours, the surface must be sanded before application. It is very important to apply the second coat within the new coat application time specified above. In the application made with a notched trowel that spreads completely on the surface, air bubbles should be removed from the fresh coating with a hedgehog roller. It reaches full mechanical and chemical strength in approximately 7 days.

- The relative humidity of the air should be maximum 50% and the application temperature (environment and surface) should be between +10°C and +30°C.
- It should not be rainy in open areas 24 hours before, during and 24 hours after application.

Concrete Surfaces:

SUFFIX PRIMER PUR 2K primer should be used on damp or weak concrete surfaces, SUFFIX PRIMER PUR 2K primer should be used on dry or solid concrete and cementitious screed surfaces, and then water insulation should be done with SUFFIX PUR 2 CM series.

Asphalt Surfaces:

Asphalt surfaces should be cleaned with high pressure water jet, any aggregates that do not adhere fully on the surface should be removed by shotblasting and should be primed with SUFFIX PRIMER PUR 1K primer and water insulation should be applied with SUFFIX PUR 2 CM series.

Bitumen Membranes:

The surface should be primed with SUFFIX PRIMER PUR 2K primer, cracks and blisters in the old bitumen coatings should be cut and removed, those sections should be repaired by puttying with SUFFIX PU SEAL 35 F, and then water insulation should be done with SUFFIX PUR 2 CM series.

Plywood:

All joints should be cleaned and taped, the surface should be primed with SUFFIX PRIMER PUR 1K primer and water insulation should be done with Live SUFFIX PUR 2 CM series.

Iron/Steel Surfaces:

It should be cleaned to SA 2.5 quality according to ISO 8501 standard, primed with SUFFIX PRIMER PUR 1K TRANS primer and applied with SUFFIX PUR 2 CM or other SUFFIX water insulation series.

Consumption

It should be applied at a rate of 1.2 -1.5 kg/m².

Storing and Shelf Life

If stored correctly in its original, unopened and undamaged packaging, under dry conditions between +10°C and +30°C, Component A can be stored for 9 months and Component B can be stored for 9 months from their production date.

Safety Precautions

During application, work clothes, protective gloves, glasses and masks that comply with occupational and worker health rules should be used. Due to the irritating effects of the unmolded product, the components should not be contacted with skin and eyes. In case of contact, it should be washed with plenty of water and soap. If swallowed, consult a doctor immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children.

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