

CICO CHEM 600 I PLUS

POLYURETHANE TWO COMPONENT ELASTOMERIC WATERPROOFING MEMBRANE

CICO CHEM 600 I PLUS is high performance waterproofing membrane provide a continuous, seamless, water and vapour proof membrane for concrete for applications in areas exposed to high water pressure. Brush, Roller, Spray applied and self-leveling, two components polyurethane Polyurea hybrid membrane used for long-lasting waterproofing and protection.

USES

- Podium
- Balcony - Decks and Parking slabs (covered with suitable screed/ finishes)
- Floor slabs
- Suspended floors
- Waterproofing of wet areas in bathrooms, kitchens & balconies.
- Roofs
- Retaining walls & foundations
- Cut and cover Tunnels & UG structures
- Waste water tanks

FEATURES

- Solvent free non-toxic formulation.
- Pitch free Polyurethane.
- Resistant to water and hydrostatic pressure.
- Root Resistance
- Resistant to puncture
- Excellent continuous adhesion to concrete prevents lateral water migration.
- Crack-bridging.
- Excellent thermal resistance, it never turns soft within service temperature range of - 20OC to + 80OC.
- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures.

METHOD OF USE

Surface preparation

All surfaces to be waterproofed should be clean, sound and dry. Priming for good quality, dense concrete is not necessary. Visible cracks, depressed or any porous substrates are to be filled or levelled with Acrylic based filler (Tapcrete – mortar) or

by PU sealant (CICO SEALANT PU 147) for concrete or brick surfaces. Apply one primer coat on prepared concrete or brick surface or mastic before application of CHEM 600 I PLUS.

Priming

All prepared surfaces shall be primed with CICO CHEM 2P2/CHEM 2P before application of CICO CHEM 600 I PLUS. For more details about primer application refer Product Data Sheet.

Application

CICO CHEM 600 I PLUS can be applied by brush, roller & Spray. All surfaces to be waterproofed should be clean, sound and dry. Stir well before using. Mix the individual material of Part A & Part B. Pour part A in to part B & mix properly for 2-3 minutes to get a homogeneous mix. Once the mixing is done apply on the primed surface to achieve desired thickness. Priming for good quality, dense concrete is not necessary. It can also be applied by a suitable spray gun or spread by a rubber squeegee. Successive layers must be applied when the earlier layer has dried up. Protective concrete screed shall be provided over CHEM 600 I PLUS coating. For more details of specification contact CICO Technical team.

COVERAGE

- For 1.5 mm thick typical consumption 1.60 to 1.7 kg per m²
- To achieve specified properties minimum thickness of dry film should be 1.2 mm.

PRECAUTIONS

- There should not be rain up to 24 hours after application of coating.
- Moisture content of the surface should not be more than 7 %
- Protective layer (based on cement- sand and 6-10mm down coarse aggregate mix) shall be provided on top layer.
- There should not be any naked flame near by the application and storage area.

HEALTH & HAZARDS

Prolonged exposure may give rise to irritation of the skin and mucous membranes. Use of normal safety precautions such as wearing rubber gloves, safety shoes and safety goggles are recommended while handling the product. In case of accidental contact with eyes, washing with plenty of water and seeking of medical treatment immediately is recommended.

TECHNICAL DATA

Mixed Density	1.15 ± 0.05	
Solid % Vol	99 % – 100 %	ASTM C836
Pot Life	40 Mins.	
Tensile Strength	8.0 Mpa – 11 Mpa	ASTM D412
Elongation	>400%	ASTM D412
Hardness, Shore A	67	ASTM D2240
Chemical Resistance	Unaffected by mild acid, alkalis & water borne salts. Does not biodegrade.	
Adhesion To Concrete	>2.0 N/mm ²	ASTM D 903
Resistant To Plant Root	Resistant	EN 13948
Crack Bridging	>3 mm	ASTM C 836
Water Absorption	< 1.0	ISO 62
Puncture Resistance	>170 N	ASTM E 154

CLEANING

Clean all machines, tools with aromatic thinner like C-9, Xylene, etc. Hardened coat shall be removed mechanically.

PACKAGING

Available in 24kg & 44 kg.

SHELF-LIFE

12 months from the date of MFG.

Important Note:

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

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