

CICO CHEM 206I (Formerly known as CORCHEM 206 I)

High Build Elastomeric Waterproofing Membrane Coating **Based on Polyurethane**

CICO CHEM 206 I is a single component, high solid content moisture cured polyurethane based tar extended elastomeric protective coating system, ideally suited for waterproofing of roof, podium deck, walls and foundation conforming to **ASTM C-836-03 and ASTM C 898-09**

CHEM 206 I SHALL BE APPLIED DIRECTLY FROM DRUM.

On drying, **CICO CHEM 206 I** forms a seamless elastomeric protective and waterproofing membrane.

CICO CHEM 206 I being viscous, it can be easily applied on vertical surface. It has excellent adhesion to dry as well as primed surfaces of concrete, tile, plaster, masonry, mastic coating and metal.

FEATURES

- Excellent resistance to water, Alkalies, with an inherent properties of anti-fungal growth.
- Excellent Compatibility with almost every construction material.
- Flexible enough to withstand wide range of thermal expansion and contraction of structure.
- Fast and easy application eliminating construction delays and is labour saving.
- Crack-bridging capacity 3-5mm.

APPLICATION AREAS

- As barrier coating for any part of the external or internal faces of the structures where high degree of waterproofing is required, e.g. Roof, Podium, Water Reservoir, Swimming Pool etc.
- Structure subject to adverse chemical or marine climatic attack or fungal growth zone, e.g. Chemical Plant, Oil Refineries etc.
- General concrete structures, masonry, brick, tile asbestos, galvanized tin, refurbishing old waterproofing system including torch-on –membrane etc.

METHOD OF USE

Surface Preparation

The area to be coated must be sound, clean and free from oil, grease or any other surface contaminates. Remove any loose materials or laitance by scrapping, chipping, mechanical abrasion or any other suitable methods.

Visible cracks, depressed or any porous substrates are to be filled or leveled with Acrylic based filler (Tapecrete – mortar) for concrete or brick surfaces. Apply one primer coat on prepared concrete or brick surface or mastic before application of **CICO CHEM 206 I**.

Priming

All prepared surfaces shall be primed with CICO CHEM 2P2/ CHEM 2P before application of CICO CHEM 206I. For more details about primer application refer Product Data Sheet.

Application

CICO CHEM 206 I can be applied by brush, roller. 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. To increase tensile strength, 50-100 GSM suitable geo textile or fiber mesh can be used as sandwich layer. Protective concrete screed shall be provided over CHEM 206I coating. For more details of specification contact CICO Technical team.

COVERAGE

1-1.2 kg per m² in two coats for a minimum thickness of 1 mm, for heavy duty application, 1.5 mm thickness is recommended.

PRECAUTIONS

- Time interval between two coats should not be more than 48 hours.
- 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

Parameter	Value	Protocol
Base	Cold applied elastomeric Polyurethane Polymer	ASTM C 836
Component	Single Component	ASTM C 836
Colour	Black	ASTM C 836
Solids	> 80%	ASTM C 836
Elongation (ASTM C 836)	More than 400%	ASTM C 836
Hardness, Shore A	50-55	ASTM C 836
Chemical stability	Resists most common spills like oil and mild acids and alkalis.	ASTM C 836
Temperature resistance	-10 ⁰ C to 80 ⁰ C	ASTM C 836
Ultimate Tensile Strength (ASTM D 412)	3.1N/mm ²	ASTM C 836
Water Absorption	< 0.1%	ASTM C 836
Shelf Life	One year if unopened and stored properly.	ASTM C 836

CLEANING

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

PACKAGING

Available in 5kg & 22 kg.

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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