

CORCHEM 210 I

High Build Elastomeric Polyurethane Protective Coating

CORCHEM 210 I is a solventless two component elastomeric heavy-duty aromatic polyurethane membrane. **CORCHEM 210 I** is designed to provide exceptional protection for surfaces subject to movement or cracking in severe chemical and physical environments. **CORCHEM 210 I conforms to ASTM D16 Type V.**

USES

Concrete storage reservoirs, cooling tower basin, containment areas, concrete piping and handling fresh and brine waters and water solutions containing industrial waste, salts, detergents, many acids, alkalis and other chemicals. Provides a high degree of protection against corrosive moisture, fumes, chlorine, carbon dioxide, hydrogen sulphide and methane gases.

FEATURES

- CORCHEM 210 I performs under highly aggressive environment.
- CORCHEM 210 I is ideal for use on concrete surfaces.
- CORCHEM 210 I is very versatile in use and application.
- CORCHEM 210 I coating provides an impermeable, anti corrosive, chemical and salt resistant environment.
- CORCHEM 210 I provides a hard, tough yet flexible finish with a longer life.

Note: The versatility of the product also helps it being used under certain other critical application.

SURFACE PREPARATION

Concrete surface shall be prepared by sweep blasting. The blast nozzle should be kept at sufficient distance and moved quickly (sweep blasting) to avoid over blast and excessive exposure of aggregate. The blasted surface

shall have the roughness of medium grade sandpaper. Any large size voids or concrete defects shall be either flooded with the Elastomeric Polyurethane while spraying or previously filled manually with appropriate polymer mortar.

PRIMER

Any one of the following as per substrate requirement:

- CORCHEM 2P2
- CORCHEM 2P
- CICO DAMPCOAT

MIXING & APPLICATION

All equipment should be cleaned and flushed with thinner. Do not vary mixing proportions. Do not allow catalyzed material to stand in equipment after use. Two Component airless spray equipment with proportioning pump is recommended. For patch repair/touchup, manual application is suitable.

STORAGE

Up to 12 months as long as the sealed containers are kept under cover in dry place under normal temperature.

PACKAGING

40 kg (A+B) metal drum.

HEALTH & SAFETY

Non-toxic but keep it away from naked flames, sparks, etc. while applying do not smoke.

PRECAUTION

Do not keep the unused Pack-B in exposed condition. If it is kept in open condition for

longer period, it will react with moisture present in the air and will be gelled.

TECHNICAL DATA

Components	Two
Volume Solids	100%
Colour	Grey, Aquamarine blue (other colours on specific requirement)
Mixing ratio	3:1 (Base: Hardener)
Curing	Chemical Cure
Gel Time	Min. 12 sec.
	Max. 30 min.
Coverage	1.2-1.3 Kg / sq.mtr. (For 1000 microns thickness)
Abrasion Resistance as per ASTM D- 4060	Weight Loss 0.05gms (Max)
Adhesion as per ASTM D- 541(Elcometer Pull Off)	≥ 2 N/mm ² (concrete failure)
Application Temperature	0°C to 80°C
Recoverable Elongation as per ASTM D- 638	50% (minimum)
Water Vapour Permeability as per ASTM E-96/ASTM F-1249-90	0.28g/24 Hours/ m ²
Surface Hardness (Cured Film- Shore D)	50 (minimum)
Tensile Strength as per ASTM D-638	17N/mm ² (minimum)
Accelerated Weathering as per G-53/BS 3800 for 2000 hours	Passes 2000 hours (chalky colour change)
Chemical Resistance Immersion of 30 days in sea water, % Weight Change	< 1.0%
% Hardness (Shore D) change	< 5.0%
% Tensile Strength Change	< 5.0%
Flexibility 180°Bend - 1.0mm thick ASTM D-1737	Pass over 12mm Mandrel

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.

CICO TECHNOLOGIES LIMITED

Corp. Office: C-44/2, 1st & 2nd Floor, Okhla Industrial Area,
Phase –II, New Delhi-110 020
Tel. No: 91-11-4050 9400, Fax: 91-11-4050 9413
E-Mail: cicotech@cicogroup.com
Web Site: www.cicogroup.com



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