



**AN ISO 9001-2000 COMPANY  
GREEN CHROMO OXIDE EPOXY COATING**

M.S.Torsional steel bars and cold rolled M S products used extensively in construction exhibit excellent physical properties and prove considerable economical. However the rubbing

And cold working induce internal stresses, due to which these member are prone to accelerated deterioration in corrosive environment or exhibit low resistance level to Corrosive medium. Hence it becomes imperative to treat these member with protective film to extend its life and protect from corrosion environment, which could be either saline environment encountered in coastal areas, Industrial chemical corrosion.

Coating must exhibit tough, flexible, highly adherent, resistance to alkaline & acidic environs and provide excellent protection.

Green Chromo Oxide Epoxy Coating is specifically developed for this type of application It provide hard, tough highly adherent, flexible film, resistance & stable under wide pH range encountered in industrial effluents, chemical plants, saline environment etc.

The metal surface to be treated must be cleared thoroughly to remove all dust, grease, scale, rust etc. from surface. It is achieved by shot blasting, or cleaning with Razon Metal Protect which can be carried out in restricted areas.

The surface to be cleared is scrubbed with wire brush, steel wool ball. Metal protect is mixed with water in ratio 1:3 to 1:5 depending upon the severity of cleaning required. Metal Protect is uniformly spread on metal surface and allowed to react for 15-20 minutes. The surface is rinsed & scrubbed with wire brush or steel wool ball. Through rinsing is must. Clean metallic sheen surface should be visible, for very oily & highly corroded surface it may be necessary to repeat above scrubbing with Metal Protect & rinsing to obtain clean metallic sheen surface free of rusts, scale, grease & dust.

Allow 1-2 hours for surface to dry thoroughly. Mix Green Chrome Oxide Epoxy resin & hardner thoroughly, use upto 10% Epoxy thinner and brush apply or spray coat the clean metallic surface uniformly ensuring every part is thoroughly coated. Spray coating will yield thinner film coating whereas brush coating will yield thicker coating. Allow 24 hours for setting. Apply second coat after 24 hours Epoxy Coating generally hardener over period of 4-7 days depending upon ambient temperature.

The coating will pass all stipulations under IS 13620-1993 viz

1	Continuity	Passes
2	Coating Thickness	0.1 mm to 0.30 mm
3	Chemical Resistance	Passes
4	[Resistance to applied voltage]	---
	[Accelerator corrosion on test]	Passes
5	Adhesion to coating test	Passes
6	Bond strength to concrete	Passes

7	Adhesion Resistance Test	Passes
8	Impact test	Passes
9	Hardness Test	Passes

NO	PRODUCT DATA	
1	Principle ingredients	Green Chrome Oxide & Epoxy
2	Colour	Green
3	Viscosity	3000cps
4	Packing	ltr, 5 ltr, 20 ltr, Resin + Hardner
5	Coverage	78-85 sq ft per ltr
6	Pot Life	45 minute to 1 hours after mixing
7	Method of Application	Brush or Spray
8	Precaution	i) Add upto 10% thinner to Resin + Hardner mixture ii) Allow 24 hrs interval before second coat. iii) Use the product within 45 minutes –1 hrs once resin and hardner is mixed. iv) Allow abundant ventitation when treating with Metal Protect & applying Epoxy <b>Avoid:</b> smoking, when using Metal Protect & Green Chrome Oxide Epoxy.
9	Surface Preparation	<b>For Concrete:</b> Shot blasting or scrubbing with Razon – XRG. <b>For Metallic Surface:</b> Sand blasting or wire brush cleaning with Razon Metal Clean. <b>For Wood, glass etc:</b> Wire brush scrubbing or sand paper scrubbing.
10	IS Specification	For metals to IS 13620-1993.

## OTHER PRODUCTS

**Admixture:** SPRMC 808 S11 B • Super Plasticizer –IWSP (M) – 101 • Super Plasticizer –IWSP (N) – 103 • Accelerator –2080 • Integral Water Proofer • IWSP –102 • I.W.P. Powder • Intrair (A.E.A) 120N • Master Plaster MP CS 101 • Block Maker BM-10 • Rapid Grout RG –117 • Tile Master TM – 1 • Anchorex 428 • Floor Hardner • Hycrete Rg – 608 • Brick Master • Super Paver • Pipe Master • Toughcrete P109 • Gunning Admixture GS-942 • Non Shrink Grout Admixture NSG A-11

**Other Products :** Tile Fix # 1 • Tile Fix # 1A • Tile Fix SP # 1 • Strextra NSG 110 • Strextra - NSG 2024 • Easy Grout • Water Repellent WBWR – 2023 • Water Repellent SBWR – 5000 • Shutter Coat for Wood & Metal • Concrete Cure Coating – 111 • Concrete Cure Coating – 103 • P.A. Bound • P.A. Mortar TH – 4 • PA. Mortar EF – 1 • P.A. Mortar Slurry • Marble Fix • Floor Repair Mortar • Insta Plugging Mortar • Pipe Joint Sealer • Tile Joint Sealer [Colour] – Red, White, Black, Brown, Ivory, Green, Grey, Pink. • Metal Protect • RZ – Polymer ED Mortar • Special Grouting System • Anti Hack Paint (XRG) • Tuffar • ADMGP – 1 • P A – Resin 651XXX • Hak Safe AL 111 • Paint Remover PR – 128 • COLGROUT Admixture CG – 101S • Rock Splitting Grout ATC-A201 • Ready Plaster • Best Plaster Putty



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable