



CoroCool



The magic of

CoroCool



Corocool is a nano-polymer based product, which when mixed with water is used to coat iron and civil surfaces without the need of a primer coat.

Simply mix water with Corocool and apply on to any surface without the need for any extensive preparation.

Two coats of Corocool gives you:-

Corrosion Resistance



Thermal Insulation



Water Proofing



And all this without any

 Primer Coat

 Petroleum solvent

 Toxic Material

More about **CoroCool**

- COROCOOL protects the iron components against corrosion, degradation due to moisture, salt spray, oxidation or exposure to various weather conditions and industrial chemicals.
- COROCOOL is used for preservation of structural civil /steel work against acid fumes and adverse weather conditions.
- COROCOOL is Polymer modified, Flexible, Elastomeric Coating. It is water soluble and bio-degradable.
- Before application COROCOOL powder is mixed well with water and applied on a clean surface.
- COROCOOL can be easily applied in the form of slurry with a brush, spray or squeegee. Hence, it is ideal for tanks, spheres, pipelines, water tanks, civil structures etc.
- COROCOOL has a very high tensile adhesion strength and is UV resistant.
- The thermal property of COROCOOL insulates the surface hence evaporation loss and energy loss due to temperature variation is low.
- COROCOOL complies with the guideline given in EN 14891, ASTM D5385, EN 1348 and DIN 1048.





Properties

Properties	Values
Appearance	Free Flowing Powder
Colour	White
Water Demand (%)	35-40
Pre-Wetting of Surface	Yes
Consistency	Good
Brush ability	Good
Touch Dry	30 – 40 minutes
Hard Dry	24 Hours
Pot life	2 Hour
Chalking (Qualitative)	None
Wet – Scuff Resistance (Qualitative)	Very Good
Curing	Self Curing at Std. lab Conditions
Tensile Adhesion After 7 days std. conditions (N/mm ²)	1.8
Water Absorption by karsten Tube (30minutes)	0.05ml
Cracking Angle in Degrees	No Cracking observed till 45 Deg
Water impermeability Test	>7.0 Bar



Technical Parameters

Properties	Value	Typical Values
Tensile Adhesion Strength (pull off) (N/mm ²) @28 Days	>2.0	>0.5 N/mm ²
Bond Strength (Kg/Cm N/mm ²) Normal Stress @1.5Kg/cm	8-9	-
Water Impremeability (Against Hydrostatic Pressure) (Bar)	>7	>1.5 bar
Crack Bridging (MM) On 16x1x4 Substrate	0.4-0.6	>0.4 mm
Abrasion Resistance (10x10 Cement Board)	50-80	<1000 mm ²
WATER ABSORPTION COEFFICIENT (KG/M ² HI/2)	0.25-0.35	-
Coefficient of Thermal Expansion (%) 0-50°C	0.02-0.05	-
Coefficient of Thermal Expansion (%) 50-100°C	0.18-0.22	-
Pot life		2 Hour
Flexural Tensile Strength (kg/cm/cm)	8.0-9.0	>0.8 N/mm ²



Thermal Performance

Temperature in Degrees Centigrade

Ambient Temperature	Reference Temperature on Steel Surface	Test Coated Sample Temperature on Steel	Temperature Difference
23	27.5	26	1.5
26	32	29	3
29	39	35	4
32	40	36	4
38	42	36	6
42	48	38	10
45	51	39	12
48	52	40	15



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