



Technical Data Sheet

SCM COAT-SD100 (Pure)

Description

SCM COAT-SD100 is two component high quality polyurea zero VOC's (Volatile Organic Compound) and 100% solid content material. **SCM COAT-SD100** can be applied for waterproofing and protection coating.
(It can be supplied for strong resistance to UV with special additive)

Use

For multi purpose protection coating on steel and concrete(Car parking area , Factory flooring , Garage , required abrasion resistance area.
For waterproof coating on concrete and wood structures.
For required chemical resistance area.
For required oil resistance (oil-proof) area.

Features

Zero VOC's (100% solid).
Fast curing time (30sec).
High tensile strength and elongation.
Cures at -25°C
Excellent resistance to thermal shock.
Excellent resistance to solvent .
Excellent resistance to oil and acid(chemical).
Excellent bond strength to properly prepared surfaces.

Packing

SCM COAT-SD100 "A"& "B" is available in 200L steel drums.

Physical Properties

Wet properties

Appearance	liquid
Specific gravity (25°C)	"A" 1.10±0.1 "B" 1.03±0.1
Viscosity(cps)	"A" 600±200 "B" 500±200
Thermal stability	0°C to 50°C
Shelf life(10-40°C) (Unopened containers)	12 months

Process properties

Gel time	5sec
Tack free time	10sec
Recoat	0-12hr

Good to Great

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Dry properties

Tensile strength ASTM D 412	25±5 Mpa
Elongation	450±100%
Hardness (Shore)	90-100 (A) 45-50 (D)
Tear strength	80±5 N/mm
Abrasion resistance (1kg ,1000rev)	38mg(CS-17)
Impact resistance (Thickness 1mm)	Above1.5kg.m

Chemical resistance (25°C)

Sulfuric acid (10%)	No change
Sodium, chloride (30%)	No change
Sodium hydroxide (50%)	No change
Sodium hydroxide (50%)	No change
Diesel	No change
Salt water resistance (Sea water)	No change
Anti-freeze	No change
Acetic acid (10%)	No change
Hydrochloric acid (10%)	No change
Calcium hydroxide (30%)	No change
Citric acid (50%)	No change

Others

Caution

Store in warm place preventing from freezing.
 Contents should not be exposed for a long time .
 In case of contact with skin and eyes ,flush immediately with plenty of water and seek medical advice.
 For further information , see the Material Safety Data Sheet.



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Coverage rates

Thickness	Requirement
1 mm	1.0kg/m ²
2 mm	2.0kg/m ²
3 mm	3.0kg/m ²
Without any loss	

Application

Mix ratio 1:1 , It must use spraying equipment for polyurea such as Graco's Reactor, Glass Craft or other equivalent machine. And keep the pressure minimum 1500psi with heating to 65-70°C. Component "B" must be mixing for 1 hour before spraying , and while spraying.

Surface preparation

Concrete Concrete should be allowed to cure a minimum of 28 days. The surface of a concrete subfloor should be dry such as moisture content below 8%, It should also be blasting to remove all laitance and expose all voids.

And filling below hole with high quality filler such as mortar ,epoxy.

Metal All the processes should be based on the Specification. If no provisions are in the Specification, the following basic methods and SSPC and should be consulted to prepare a surface.

Rusts, dusts, and other contaminants on the surface should be completely eliminated according to the instructions of the supervisor. The surface should be fully dried before coating.

Color

Clear/Neutral. Custom colors are available upon.

Clean up

Cleaning of Tools Clean all tools and application equipment with Thinner (Disel oil ,DOP , Ethyle cellosolve) immediately after use. Cured material can only be removed mechanically.

Contact our R&D center if you need more informations