

Technical Data Sheet

SCM COAT-HH100 (Pure)

Expert Manufacturer
Best Partner for You
+82-70-7739-6268

Description

SCM COAT-HH100 was developed for excellent high hardness mechanical properties.

SCM COAT-HH100 is two component high quality polyurea zero VOC's (Volatile Organic Compound) and 100% solid content material. (It can be supplied for strong resistance to UV with special additive)

Use

For multi purpose protection coating on steel and concrete.
For oil & gas pipe line.
For required high abrasion resistance properties.

Features

Zero VOC's (100% solid).
Fast curing time (30sec).
High hardness.
Cures at -25°F to 300°F .
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-HH100 "A" & "B" is available in 200L steel drums.

Physical Properties

Wet properties

Appearance	liquid
Specific gravity (25°C)	"A" 1.12±0.1 "B" 1.00±0.1
Viscosity(cps)	"A" 600±100 "B" 500±100
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

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Dry properties

Tensile strength ASTM D 412	25±5Mpa
Elongation	200±100%
Hardness (Shore)	60~70 (D)
Tear strength	95±5 N/mm
Abrasion resistance (1kg ,1000rev)	15mg(CS-17)
Impact resistance (Thickness 1mm)	Above1.5kg.m

Chemical resistance

10%-Sulfuric acid	Not change
30%-Sodiumchloride	Not change
30%-Sodium hydroxide	Not change
50%- Sodium hydroxide	Not change
Diesel	Not change
Salt water resistance	Not 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 (Diesel oil ,DOP , Ethyle cellosolve) immediately after use. Cured material can only be removed mechanically.

Contact our R&D center if you need more informations