

# 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.  
Able to be cured 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-HH100** "A"& "B" is available in 200L steel drums.

## Physical Properties

### Wet properties

Appearance	liquid
Specificgravity(25°C)	"A" 1.12±0.1 "B" 1.00±0.1
Viscosity(cps)	"A" 600±100 "B" 500±100
Thermalstability	0°C to 50°C
Shelflife(10-40°C) (Unopenedcontainers)	12months

### Process properties

Geltime	5sec
Tackfreetime	Rapid10secrepair
Recoat	0-12hr

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### Dry properties

Tensile strength ASTMD412	25±5Mpa
Elongation	200±100%
Hardness(Shore)	60~70(D)
Tear strength	95±5N/mm
Abrasion resistance (1kg,1000rev)	15mg(CS-17)
Impact resistance (Thickness1mm)	Above1.5kg.m

### Chemical resistance

10%–Sulfuric acid	Not change
30%–Sodium chloride	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
1mm	1.0kg/m <sup>2</sup>
2mm	2.0kg/m <sup>2</sup>
3mm	3.0kg/m <sup>2</sup>
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

**Good to Great**