



SAROTHANE[®] 400

Technical Data Sheet

Description

SAROTHANE[®] 400 is a high build solvent free plural component polymer protective coating formulated for internal use in water and liquid pipelines and storage tanks.

Features

- Excellent adhesion to concrete, steels, and cast irons without any primer
- Anti erosion and anti corrosion material
- Seamless and antibacterial which prevents growth of microorganisms on its surface
- Exceptional material to repair and fix concrete cracks and fractures
- Having excellent chemical resistance
- Having excellent resistance to seawater

Usage

This material could be used as coating for internal lining of city water pipelines, internal lining of water and liquids storage tanks, internal lining for fresh water and ballast water tanks in vessels.

Physical Properties

Solid Content		95-100 %
Specific Gravity	ASTM D-792 SAROTHANE[®] 400 SBP-H1	1.45 kg/liter 1.2 kg/liter
Adhesion	ASTM D 4541	Concrete: Exceeds cohesive strength of concrete Metal : 11 MPas (~1600 psi)
Water Absorption	ASTM D 570, 28 Days	0.3%
Salt Spray	ASTM B 117	1000 hours , no effect
Hardness	ASTM D 2240	70 ± 5 Shore D
Impact Resistant	ASTM D 2794	> 40 in.lbs.
Cathodic Disbondment	ASTM G 8 , 30 days @ 23±2 °C , 1.500 mm	6~8 mm radius
Flexibility	ASTM D522	No crack
Chemical Resistant	ASTM D543	Maximum
Elongation (%)	ASTM D 412	10~20%
Abrasion Resistance	ASTM D 4060	50 mg



Surface Preparation

The surface in which the material is to be applied must be free of dust, dirt, oil, grease, moisture and loose pieces of concrete. Also high-pressure water jet could be used to breakaway deteriorate loose pieces of concrete from the surface. On the other hand metal surfaces should be blasted to *near white blast cleaning SSPC-SP10 (Sa 2 ½)*. If blasting with abrasives is not possible, cleaning with hand power tools is accepted but adhesion may decrease.

Temperature must be above the dew point to avoid condensation.

Damaged concrete areas should be repaired using **SAROTHANE® 300**.

Applications

Mixing ratio (parts by volume)	BASE: SAROTHANE® 400 3 parts Curing agent: SBP-H1 1 part
Application method	Applicable with Roller, Brush, and Spray systems
Color	White
Thinner	SBP-SV2 / SBP-SM3 (if needed add according to manufacturer recommendations)
Pot life	20 min. (20°C)
Shelf life	One year from date of manufacture
Cleaning of tools	MEK, Toluene , Xylene
Recommended thickness	Normal Duty: 500 – 1000 microns Heavy Duty: 1500 – 2000 microns
Theoretical coverage	Approximately 1.4 Kg/m ² @ 1000 microns
Re-coating interval	Minimum 1 hours (20°C) Maximum 1 day (20°C)
Dry to touch	Approximately 4 hours after application at 20°C
Return to Service	2 days, with care
Fully cured	Approximately 10 days after application at 20°C

Packing and Storage

SAROTHANE® 400 comes in 25kg metal containers and **SBP-H1** comes in 20kg metal containers or as per customer's order.

Avoid freezing and store between 5 and 50 °C.



Cautions, Health and Safety

Avoid contact with skin or eyes by wearing gloves and goggles (when spraying in confined spaces). All safety precautions warranted by good industrial hygiene practices must be taken into consideration while applying these materials. Good ventilation should be provided when applying this material in confined spaces. Even when ventilation is provided, respiratory, skin and eye protection are always recommended while spraying material.

FIRST AID MEASURES

- Contact with skin
Immediately take off all contaminated clothing.
Areas of the body that have – or are only even suspected of having – come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
- Contact with eyes :
Wash immediately with water for at least 10 minutes.
- Inhalation :
Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilate area. **OBTAIN MEDICAL ATTENTION.**

FIRE FIGHTING MEASURES

Recommended extinguishers : Foam, sand and Co3

Extinguishers not to be used : None in particular

Risks arising from combustion : Avoid inhaling the fumes.

Protective equipment : Use protection for the respiratory tract. Cool the containers exposed to the fire with water.

HANDLING AND STORAGE

Handling precautions : Avoid contact and inhalation of the vapors

Do not eat or drink while working.

Do not smoke while working.

Storage Conditions : Keep away from unguarded flame, sparks, and heat sources.

Avoid direct exposure to sunlight.

storage premises : Cool and adequately ventilated.

This information only concerns the above-mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

This MSDS cancels and replaces any preceding release