

Sancon 100®

EPOXY/URETHANE COATING SYSTEM

- Designed for Sanitation Systems
- High Build, Flexible, Non Shrinking
- Bonds to Damp Concrete
- Meets or Exceeds SSPWC "Greenbook" Section 500-2.4

Product Description

Sancon 100 is a two coat protective coating system for concrete which uses a high adhesion and moisture tolerant epoxy base coat and a high build polyurethane elastomer top coat. The resulting system provides the adhesion of epoxy and the flexibility of polyurethane.

Recommended Uses

Sancon 100 was specifically developed for protecting concrete and steel surfaces exposed to the corrosive and abrasive environment of sanitary systems. The typical application involves coating below grade concrete in a live sewer condition.

Characteristics

The Sancon 100 system is a fast drying and fast curing protective lining which develops high bond strengths to both dry and damp concrete. It contains no solvents to evaporate, therefore, no drying shrinkage occurs.

Sancon 100 polyurethane remains flexible throughout its life, yet is highly resistant to abrasion and impact.

Surface Preparation

Concrete. No surface preparation is required on clean concrete surfaces free from curing compounds, oils, existing coatings or other foreign materials. Grit blasting is required where the coating is subject to immersion service.

Newly placed concrete or gunned mortar may be coated as soon as the initial set.

Deteriorated concrete surfaces must be cleaned by high pressure water to sound concrete. The surface must be free of oil, grease, soft concrete or existing coatings.

Steel. Steel surfaces require grit blast to near white metal. (SSPC SP-10) Primer must be applied to a dust free surface prior to surface rust appearing.

Application

Concrete. Epoxy and polyurethane are applied through plural component equipment which mixes both components before the spray gun. Both materials are applied in one continuous coat until the desired thickness is reached. Recommended thickness for the epoxy coat is between 1 to 2 mils. Recommended thickness for the polyurethane is between 60 and 125 mils depending on the particular service requirements and the surface profile.

Application of the polyurethane must take place prior to the epoxy becoming tack free. Where the coating application cannot be completed in one continuous operation, or where a second coat of polyurethane is needed, a 1 to 2 mil thick prime coat of epoxy must be used for the adhesion of the polyurethane to the cured polyurethane.

Steel. Steel surfaces require polyurethane primer in lieu of epoxy. Primer thickness should be 1 to 2 mils. Recommended thickness on steel is between 40 to 60 mils.

Chemical Resistance @ 70°F

Acids

50% Sulfuric	I
43% Phosphoric	I
37% Hydrochloric	FC
50% Acetic	I
15% Chromic	FC
14% Nitric	FC

Bases

25% Sodium Hydroxide	I
20% Potassium Hydroxide	I
29% Ammonium Hydroxide	I

Salts

20% Sodium Chloride	I
1% Ferric Chloride	I

Hydrocarbons

Soaps and Detergents	I
Petroleum Oils	I
Vegetable Oils	I

Solvents Not Recommended

Weathering Discoloration, No Physical Degradation

I—Immersion FC—Frequent Contact

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Warranty

The technical data contained herein is accurate to the best of our knowledge. Sancon Engineering, Inc. warrants coatings that are presented herein meet their formulation standards. No other warranty is expressed or implied, including warranties of merchantability, fitness and coverage for a particular purpose. Published technical data and instructions are subject to change without notice. Contact Sancon Engineering for current technical data, instructions and chemical resistance.

Physical Properties

	Epoxy	Polyurethane
Type	Modified Amine	Aromatic
Components	2	2
Color	Purple	Tan
Application	Plural Spray	Plural Spray
Mixing Ratio	2:1	3:1
Pot Life, Mass	15 Minutes	0.5 Minutes
Standard Thickness	2-5 Mils	60-125 Mils
Cure To Tack Free	2 Hours @ 70°F	30 Min. @ 70°F
Minimum Cure Time For Submersion	4 Hours @ 70°F	4 Hours @ 70°F
Recoating Time	2 Hours @ 70°F	30 Min. @ 70°F
Application Surface Temperatures	50°F - 150°F	32°F - 150°F
Maximum Service Temperature	250°F Dry 140°F Wet	250°F Dry 140°F Wet
Typical Coverage On New Concrete	200 s.f./gal. @ 5 Mils	1200 s.f./gal./mil
Combined Weight	9.6 lb./gal.	10.8 lb./gal.
Flash Point	> 400°F	> 400°F
Thinning	None	None
Shelf Life	1 Year	1 Year
Transport Index	Non-Hazardous	Non-Hazardous



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