PRODUCT DATA SHEET

DerCoat® - 2100 Primer

Heat Resistant Silicone Alkyd Primer

GENERIC TYPE:
Single package, Zinc Chromate/Red Oxide Silicone Alkyd Primer.

DESCRIPTION: ***DerCoat-2100 Primer*** is an organic silicon resin paint which can resist 450 °F ,designed to use as primer for various kinds of facilities such as pipeline, engine, boiler, etc., which are operated under high temperature. ***DerCoat-2100 Primer*** is an excellent heat resistant primer for steel surfaces where operating temperatures do not exceed 450 °F (232 °C) continuos and 500 °F (260 °C) non-continuos. DerCoat-2100 has a very good flexibility, excellent weathering characteristics and good chemical resistance.

FEATURES:
- For peak temperature up to 500°F (260 °C) and operating temperatures of 450°F (232 °C)
- Pure, unmodified silicone resins and thermally stable pigments.
- Will air dry at ambient.
- Resistant to severe thermal shock.

RECOMMENDED USES:
Recommended as a **450 °F heat resistant antirust prime coat** on hot piping, hot process vessels, compressors, generators, tanks, stacks and breeching.

NOT RECOMMENDED FOR:
For inmmersion Service or exposure to splash and spillage of acid or alkalines. Containment of aromatic solvents or severely corrosive materials. ***DerCoat-2100 Primer*** is not recommended for fabrication shop use.

ORDER INFORMATION: Prices may be obtained from ***SanyChem Sales Representative*** or main Office.

APPROXIMATE SHIPPING WEIGHT :

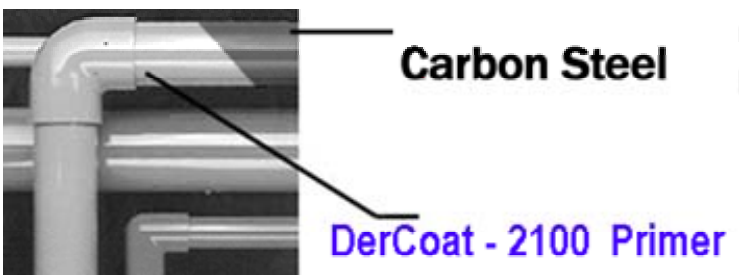
Freight Classification: Paint, Combustible Liquid UN1263, PG III

Packaging:	**1 gallons**	**5 gallons**
DerCoat-2100 Primer	11.0 lbs. (5.0 kg.)	56.0 lbs. (25.5 kg.)
SolvenSany # 276 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)
SolvenSany # 292 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)

FLASH POINT (Pensky/Martens Closed Cup) :

	Flash Point
DerCoat-2100 Primer	41 °C
SolvenSany # 276 Thinner	41 °C
SolvenSany # 292 Thinner	4 °C

NOTE: A test patch is recommended to verify compatibility with existing coatings, to evaluate the adhesion to any existing coatings and the adhesion of existing coatings to the substrate.



SPECIFICATION DATA

- **Solids Content By Volume:** 45% ± 2%
- **Theoretical Coverage Rate per Gallon: ***
  18.0 m² / Lit at 25 microns
  9.0 m² / Lit at 50 microns

•Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

- **Temperature Resistance (Non-immersion)**
  Continuous : 450 °F (232 °C)
  Non-Continuos : 500 °F (260 °C)
- **Recommended Dry Film Thickness Per Coat:**
  2 mils (50 microns)
  NOTE: Excessive thickness may cause blistering
- **Color Standard in** : Brown Only.
- **Flexibility :** Very Good
- **Gloss :** Flat
- **Abrasion Resistance :** Good
- **Substrates:** Apply to properly prepared steel, cast iron, galvanizing, aluminum or other as recommended.
- **Weathering :** Excellent
- **Shelf Life :** 12 months when stored at 75 °F (25 °C)
- **Storage Conditions:** Store indoors.
  Temp.: 40 - 110 °F (4 -43 °C)
  Humidity: 0 - 100%

COMPATIBILITY WITH OTHER COATINGS :
May be applied directly to substrate. Consult **SanyChem** Technical Service Department for specific recommendation.

TOPCOAT REQUIRED:
For best results, topcoat with one or two coats of ***KoraGloss-300 RS***. Do not topcoat with coatings such as epoxies or vinyls containing strong solvents.

CHEMICAL RESISTANCE GUIDE * DerCoat-2100 Primer		
Exposure	**Splash & Spillage**	**Fumes**
Acids	Good	Very Good
Alkalies	Fair	Good
Solvents	Good	Very Good
Water	Excellent	Excellent
Salt	Excellent	Excellent

*** With recommended topcoat after heat curing of six hours at 300 °F (149 °C)**

January 2001 replaces April 1998

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

Substrates & Surface Preparation

General:
Remove any oil or grease from surface to be coated with clean rags soaked in **SolvenSany # 252** or **Surface AC Cleaner** in accordance with **SSPC-SP-1-82.**

Steel:
New Surfaces: Steel – For maximum protection, dry abrasive blast to a Commercial Blast Finish in accordance with SSPC-SP-6-63 to a degree of cleanliness in accordance with NACE # 3 to obtain a 1½ mil (40 microns) maximum blast profile. Minimum acceptable preparation is Hand Tool Cleaning in accordance with SSPC-SP-2-63.

Previously Painted Surfaces: Old coatings must be totally removed and a profile established as in **New Surfaces**.

Mixing: Use mechanical agitation for proper mixing, such as Jiffy Mixers or similar commercially available mixers. Stir until thoroughly mixed. Prior to application, strain mixed material through 60 mesh screen or other suitable filtration device.

Thinning: Thin up to 25% by volume with **SolvenSany # 292** Thinner for Spray Applications.

Thin up to 10% by volume with **SolvenSany # 276** Thinner for Brush Applications.

Application Equipment
Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

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Spray Application

Spray Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray Use a 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

Mfr. & Gun	Fluid Tip	Air Cap.
DeVilbiss P-MBC or JGA	FF	704
Binks #18 or #62	63C	63 PB
I.D.	Approx. 0.052" I.D.	

Airless Spray Use 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surfaces and at a right angle to the surface.

Mfr. & Gun	Pump
DeVilbiss JGN-502	QFA-514 or QFA-519
Binks Model 700	Mercury 5C or B8-36 37:1
Graco 205-591	President 30:1 or BullDog 30:1

Use a 0.013" - 0.017" tip with 1800 - 2000 psi.
Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer

APPLICATION TEMPERATURES				
Conditions	**Material**	**Surfaces**	**Ambient**	**Humidity**
Normal	10-32 °C	13-32 °C	13-38 °C	30 – 95%
Minimum	2 °C	2 °C	2 °C	0 %
Maximum	49 °C	66 °C	49 °C	98%
Do not apply when the surface temperature is less than 2 °C above the dew point				

DRYING TIMES BEFORE TOPCOATING (At 2 mil (50 microns) DFT at 50% R.H.)		
Temperature	**Dry to Touch**	**Dry To Recoat**
4 °C	48 hours	60 hours
10 °C	36 hours	48 hours
16 °C	30 hours	30 hours
24 °C	24 hours	24 hours
32 °C	24 hours	24 hours

Final Cure: To obtain optimum properties, ***DerCoat-2100 Primer*** coating can be cured in service at temperatures of 350 °C (177 °C) to 450 °F (232 °C). Allow initial increase in temperature to proceed slowly up to 350 °F (177 °C) over a six hour time period.

Brush: Recommended for small areas or touch-up only. Use natural bristle brush applying with full strokes. Avoid rebrushing or reworking of material. Take care to avoid excessive film thickness.

Roller: Not recommended.

Cleanup & Safety

Cleanup Use ***SolvenSany #272***. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 1/2001

Contact

For information and Prices, Please Call a SANYCHEM Local Sales Representative.

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