

Product Data Sheet

STANGARD 1311 INSULKOTE (CLASS B)

High Build - High Breakdown Voltage
Solventfree Epoxy Insulation Coating

GENERAL DESCRIPTION

STANGARD 1311 INSULKOTE (CLASS B) is a self-leveling, solvent free, high-build, high breakdown voltage protection & insulation coating developed from an unique cycloaliphatic amine curative, loaded with special insulating additives. designed to provide both insulation as well as combat corrosion.

- ★ Ultra high dielectric strength & insulation resistance.
- ★ Unique breakdown voltage (Tested ERDA, Vadodara): In Air 53 Kv.
(4 Coats of STANGARD 1311 INSULKOTE CLASS B 1800 –2000 Microns & 1 Coat of 1311 INSULKOTE TOP COAT – GREEN 100 – 120 microns).
- ★ High build – high adhesion.
- ★ Smooth, glossy finish.
- ★ Tough, wear & weather resistant.
- ★ Easy to apply /install, clean, repair....
- ★ Excellent chemical resistance.



Dielectric Floor Coating

APPLICATIONS

(A) DIELECTRIC FLOORING : Self Leveling, high gloss, seamless, dielectric flooring will provide reliable safety against injuries caused by electrical leakage & tracking easy installation cleaning & repair, clean.... Provides dust – free atmosphere in panel rooms... Long lasting & durable...

STANVAC CHEMICALS (INDIA) LTD.

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- ★ Provides Protection against electrical leakages & the resultant human risk in high voltage sub-stations – switchgear panels, VCB's, battery rooms, marshalling box flooring....
- ★ Enables improvement in both aesthetics & safety...

(B) HIGH VOLTAGE INSULATION COATING :

- Ends of electrical insulators.
- Transmission tower /electrical poles... metal support structures... guards against animal caused flashovers.
- Bus-bars
- Bushings & Potheads
- FRP Barrier Boards..... enhances water repellancy & arc – track resistance.
- Prevents moisture ingress.
- Adds weather resistance to insulating structures made from FRP, metals, posts, bushings, capacitors transformers, cable accessories...



Coating Upto 3 Mtrs from Ground

TECHNICAL SPECIFICATIONS

1.	Color & Appearance	Light Grey, Viscous Liquid
2.	Mix Ratio	2 : 1 (Part A : Part B)
3.	Specific Gravity	1.5 ± 0.05
4.	Solids	100% Solvent free
5.	Pot life	35 – 45 minutes @ 25°C
6.	Touch Dry	1 – 2 hours @ 25°C
7.	Tack Free	4 – 5 hours @ 25°C
8.	Hard Dry	14 – 16 Hours @ 25°C
9.	Full Cure	7 days @ 25°C
10.	BDV (4 Coats of STANGARD 1311 INSULKOTE CLASS B + 1 Coat of STANGARD 1311 INSULKOTE TOP COAT GREEN)	53 Kv in Air

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11.	Dielectric Constant (ASTM D 150 – 150 KHz)	3.5
12.	Abrasion Resistance (ASTM D 4060 CS17 wheel /1Kg Load)	40 mg loss /1000 cycles.
13.	Hardness Shore D (ASTM D 2240)	>80
14.	Scratch hardness (BS 3900 E-2)	4.5 Kgs
15.	Pull – Off Adhesion (ASTM D 4541)	>16 mpa (>2200psi)
16.	Tensile Strength (ASTM D 638)	>30 mpa
17.	Impact Resistance (ASTM D2247, 27 Joule Impact)	Pass
18.	Temperature Resistance	Upto 90°C
19.	Gloss (ASTM D523 /ISO 2813)	>85 @ 60° Angle
20.	Salt Spray (ASTM B117)	>2500 Hours
21.	Coverage (4 Coats /1800 –2000 Microns DFT)	Approx 3.5 Kgs per sq mtr

HOW TO USE

(A) DI-Electric Flooring: A self-leveling tendency will be noticed after the material has been poured on the surface to be coated, however some assistance is required in order to achieve the specified thickness. Conventional hand-troweling and screed raking are the two recommended methods of application. Screed raking is generally preferred because of the uniformity in thickness that can be achieved. A silica broadcast is required for skid resistance. The surface should be saturated and the excess removed after the material has set. Can be top-coated with #1311 Epoxy Top-Coat for color coding.

(B) Insulation Coating: Ensure surface is clean, dry, free of rust & other contaminants... Apply #703 STANGARD ST-PRIME for improved adhesion especially if proper pre-cleaning is not feasible /surface is damp.



Bus Bar Coating

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SURFACE PREPERATION

NEW CONCRETE - The concrete should be well cured for a minimum of 10 (ten) days, per ACI 308-81, (R-1986), clean, dust free and free of all contaminants. Mechanical methods such as sandblasting, scarifying, or shot blasting should be employed to remove the weak layer of

surface laitance. A minimum tensile strength of 200 psi is required of the prepared surface. Acid etching with muriatic acid is acceptable but less desirable. Care must be taken to completely remove all residual acid prior to the application of STANGARD 1311 INSULKOTE (CLASS B).



Panel Room Flooring



Dielectric Floor Coating in Front of HV Control Panels

EXISTING CONCRETE - Concrete must be structurally sound and free of all contaminants. Weak or contaminated concrete must be removed until sound concrete is realized. Old coatings, toppings, waxes, oils, etc. must be removed prior to the application of STANGARD 1311 INSULKOTE (CLASS B)... Surface should be clean & dry. Apply #703 STANGARD ST-PRIME if concrete is damp /moist...oil soaked...

METAL – Blast clean SA 2.5 or followed by application of ST2 /ST3 preparation, apply surface tolerant primer #703 ST PRIME (100 microns DFT) prior to application of STANGARD 1311 INSULKOTE (CLASS B).

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CAUTION

Do not apply STANGARD 1311 INSULKOTE (CLASS B) over following substrates

- Subject to hydrostatic pressure.
- Which are unsound.
- Which are contaminated and cannot be cleaned.
- At temperatures below 18°C.

CLEAN-UP

All mixing and application equipment should be cleaned immediately after use with biodegradable cleaners. If the material has begun to set, more aggressive solvents will be necessary. Before using solvents, refer to their respective MSDS for handling considerations.

STORAGE & SHELF LIFE

STANGARD 1311 INSULKOTE (CLASS B) should be stored at 20-25°C out of direct sunlight. All containers should remain unopened until ready for use. If stored as set out above, STANGARD 1311 INSULKOTE (CLASS B) has a minimum shelf life of one year.

SAFETY

STANGARD 1311 INSULKOTE (CLASS B) contains blended Epoxies as the resin and blended Amines as the hardener. Protective clothing and gloves are recommended to prevent sensitization to these materials. In case of ingestion or eye contact, contact a physician immediately. MSDS are available for this product upon request.

“ USE THE BEST ”

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TEST REPORT		SHEET 1 of 2
NAME & ADDRESS OF CUSTOMER Stanvac Chemicals (India) Ltd. 15-16 Old Sewa Nagar Market, P.O. Lodhi Road, New Delhi – 110 003.	REPORT No DATE	ISDEW0093452-2 05-7-2011
	CUSTOMER REF No DATED	STAN/ERDA/11/11-12 22-6-2011
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	22-6-2011	29-6-2011
SAMPLE DESCRIPTION Stanvac Make 1311 INSUL KOTE applied on Aluminum Plates. Plate B – 1311 INSULKOTE [1400-1550 μ DFT Consist of 1) BASE COAT – 1311 INSULKOTE – 1200-1300 μ 2) TOP COAT – 1311 INSULKOTE – 120 – 140 μ	IDENTIFICATION NO ERDA SAMPLE CODE: ISDEW0093452	
TEST DETAILS	TEST SPECIFICATION	
1. Electric strength	IS : 2584 – 1963 Reaffirmed 2006	
<i>Ilketh</i> PREPARED BY	 CHECKED BY	<i>me</i> APPROVED BY
NOTE:	<ol style="list-style-type: none"> 1. This report relates only to the particular sample received in good condition for testing in good condition at ERDA. 2. This report cannot be reproduced in part under any circumstances. 3. Publication of this report requires prior permission in writing from Director, ERDA. 4. Only the test asked for by the customer has been carried out. 	


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REPORT No : ISDEWO093452-2		DATE: 05-7-2011	SHEET 2 of 2	
Sr. No.	Particular of tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Electric strength, ac, (short time test) in air at 25°C - Breakdown voltage, kV	--	53	--
<i>Lilheth</i> PREPARED BY		 CHECKED BY		



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