

Product Data Sheet

STANGARD 1311 INSULKOTE (CLASS A)

High Build - High Breakdown Voltage
Solventfree Epoxy Insulation Coating

GENERAL DESCRIPTION

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

- ★ Ultra high dielectric strength & insulation resistance.
- ★ Unique breakdown voltage (Tested ERDA, Vadodara): In Air 34.1 Kv.
(4 Coat application – 1000 /1200 Microns DFT).
- ★ High build – high adhesion.
- ★ Smooth, glossy finish.
- ★ Tough, wear & weather resistant.
- ★ Easy to apply /install, clean, repair....
- ★ Excellent chemical resistance.
- ★ Based on proprietary “Flyash – Glassflake” epoxy system, technology licenced from IIT Bombay.



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.

Admin. Office: 15-16, Old Sewa Nagar Market, P.O. Lodhi Road, New Delhi-110 003. India
Tel: +91-11-24647199/ 24647252 Fax: + 91-11-24633847/ 24623826 E-mail: sales@stanvac.com

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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	1.4 ± 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	34.1 Kv in Air
11.	Dielectric Constant (ASTM D 150 – 150 KHz)	3.5

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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)	5.0 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.	Elongation	>3.5%
19.	Temperature Resistance	>90°C
20.	Gloss (ASTM D523 /ISO 2813)	>85 @ 60° Angle
21.	Salt Spray (ASTM B117)	5000 Hours
22.	Coverage	Approx 1.5 Kgs /sq mtr (1000 microns DFT /4 Coats)

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.



Bus Bar Coating

(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.

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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 A).



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 A) ...Surface should be clean & dry. Apply 756 Stanfloor Primer if concrete is damp /moist. (Apply 703 ST Prime if concrete is oily).

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 A).

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CAUTION

Do not apply STANGARD 1311 INSULKOTE (CLASS A) 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 A) 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 A) has a minimum shelf life of one year.

SAFETY

STANGARD 1311 INSULKOTE (CLASS A) 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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ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

Fax : +91 (0265) 2638382

E-mail : erda@erda.org

Web : http://www.erda.org



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 - 110003.	REPORT No DATE	ISDEWO00813075-1 29-3-2011
	CUSTOMER REF No DATED	Nil 26-3-2011
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	26-3-2011	26-3-2011
SAMPLE DESCRIPTION Stanvac make Insulkote applied on aluminium plate (4 ft.x4 ft.) Insulkote - 1311 (A) D.F.T. - 1000 - 1200 MICRON Date 15-3-2011	SAMPLE IDENTIFICATION ERDA sample code No.: ISDEWO00813075	
TEST DETAILS		TEST SPECIFICATION
Sr. No	Test particulars	
1.	Electric strength	IEC 60243-Pt1-1998
PREPARED BY <i>A.B. K.</i>		CHECKED BY <i>[Signature]</i>
		APPROVED BY <i>[Signature]</i>
NOTE:	<ol style="list-style-type: none">1. This report relates only to the particular sample received for in good condition testing 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, ERDA4. Only the test asked for by the party has been carried out.	



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REPORT No: ISDEWO00813075-1 DATE: 29-3-2011 SHEET 2 of 2				
Sr. No.	Particular of tests & Cl. No.	Requirements as per specification	Obtained value	Remarks
1.	Electrical strength, ac (Short time test) in air at 27°C Breakdown Voltage(BDV),kV	-	34.1	-
A.D. Patel PREPARED BY		[Signature] CHECKED BY		



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