

Product Data Sheet



#8800 HYDROGUARD HVIC High Voltage Insulator Coating SUPERIOR SUPPRESSION OF LEAKAGE CURRENT & FLASHOVER PROTECTION FOR RELIABLE SERVICE

HVIC silicone coating provides a near maintenance-free system that can prevent excessive leakage current, tracking and flashover of porcelain, glass & polymer insulation in conditions of high humidity, fog, salinity, all types of pollution conditions....



“Superior Hydrophobicity“

- ★ ERDA Technology – Cost effective & suited to Indian conditions.
- ★ Single component high build polysiloxane RTV coating, coupled with optimally sized & combined ATH particles (4.50-13.0 μ m) useable under all voltage conditions, AC & DC, from distribution to transmission voltage (400Kv).
- ★ Superior arc resistance & hydrophobicity.
- ★ Superior tracking resistance with a smooth finish.
- ★ Recovers hydrophobicity even after surface contamination deposition
- ★ Will keep the insulator dry & clean. Ensure's year's of protection.
- ★ Near maintenance free system passes over 5000 hour salt fog testing. Suitable for long term protection.

STANVAC CHEMICALS (INDIA) LTD.

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- ★ Built in bonding enhancers.
- ★ Suitable for use on both old & new insulators.
- ★ Can be used as refresh coating on older silicone HVIC Coatings.



#8800 HYDROGUARD HVIC post curing, forms a smooth elastomeric coating with superior hydrophobicity even post contamination deposition.

Usage prevents electrical leakages, contaminant caused flashovers, arcing caused surface damage.....

Near maintenance free system passes over 5000 hour salt fog testing for long term protection.

HYDROGUARD HVIC silicone is not affected by UV light, temperature, corrosive environments or ATH pitting from dry band arcing. Our insulator coating presents a smooth finish with superior tracking resistance.

The Hydroguard HVIC silicone coating can eliminate or reduce:

- ★ Regular insulator washing and cleaning.
- ★ Periodic re-application of greases.
- ★ Replacement of T&D components damaged by flashovers.



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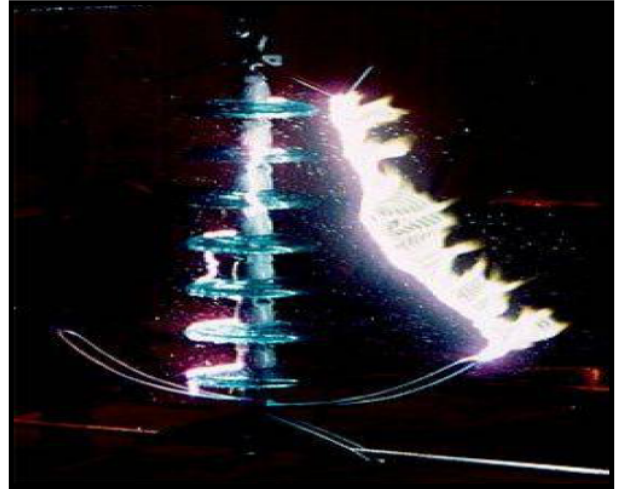
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“Flashover of Insulator String”

TYPICAL PROPERTIES

Colour:	White, or Light Grey
Hardness (Shore A)	40
Tensile strength (Kg / cm ²)	>10
Elongation at break (%)	>400
Solid Content (%)	99±1
Water repellency angle	>110°
Dielectric strength (Kv /mm)	>20 Kv /mm
Volume resistivity (Ohm cm)	>2.46 x 10 ¹⁵
Dissipation factor @ 50Hz	0.03
Arc resistance (Sec)	>115 Seconds.
Curing schedule at room temperature	24 hrs.
Tack free, minutes	30 – 45 minutes
Usable temperature range	Ambient temperature
Application temperature range	Ambient temperature
Flash point temperature	>20°C
Dielectric constant at 100Hz	3.71
ARC resistance	>5Kv / 2hours.
Theoretical Coverage – Typical: For 450 micron	1.75 Sqmtr/Kg DFT.
Tracking wheel with stand, min	1000
Abrasion resistance taber abrasion – 1000 cycle	<5mg

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Applications:- Glass, Porcelain, Composite insulators, Bushings

Application Procedure:- Insulator surface should be clean & dry. Pre wash with DM water, 8060 Safety solvent, Z109 Neugenic 4175, Acidfoam (cementations deposits)..... or abrasive dry blasting using crushed corn cobs, walnut shells mixed with limestone.

Product can be applied by brushing dipping & spraying.

Three – Five coats are sufficient to obtain recommended minimum thickness of 15-20 mils (375-500 microns).

All areas prone to corrosion such as caps & pins of insulator discs should also be coated to provide added protection & a monolithic surface.

HYDROGUARD HVIC should be applied immediately post insulator cleaning.

Application coverage:

Mode of application	Recommended Thinner Intake	Coverage#
Brush	Stangard 8800 T- 25-30%	1.05Sqmtr/Kg @450 μ (3 coats)
HVLP Spray	Stangard 8800T- 55-60%	0.65Sqmtr/Kg @450 μ (4-5 coats)
Airless spray	Stangard 8800T- 40-50%	0.90Sqmtr/Kg @450 μ (4-5 coats)

Considering genuine wastages, applicator skill, Ideal application conditions...

Packaging: 2.5kg and 25kg Plastic pail.

Storage and Shelf life – When stored in its original unopened packaging, at a temperature of between +2°C and +25°C, the #8800Hydroguard HVIC may be stored for up to 6 months from the date of manufacture clearly marked on the Packaging.

Warranty: M/S Stanvac Chemical (I) Ltd. will replace any material found to be with manufacturing defect. Since the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Important Notification:

The information, and, in particular, the recommendations relating to the application and end-use of STANVAC products, are given in good faith based on M/s Stanvac current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

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