# **Midsun 570** High Voltage Insulator Coating

*Unparalled Flashover Protection For Reliable Service*

## Why?

For long term, cost effective reliability, only **Midsun 570 HVIC™** fourth generation silicone coating provides a near maintenance free system that can prevent excessive leakage current, tracking and flashover. **Midsun 570 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.

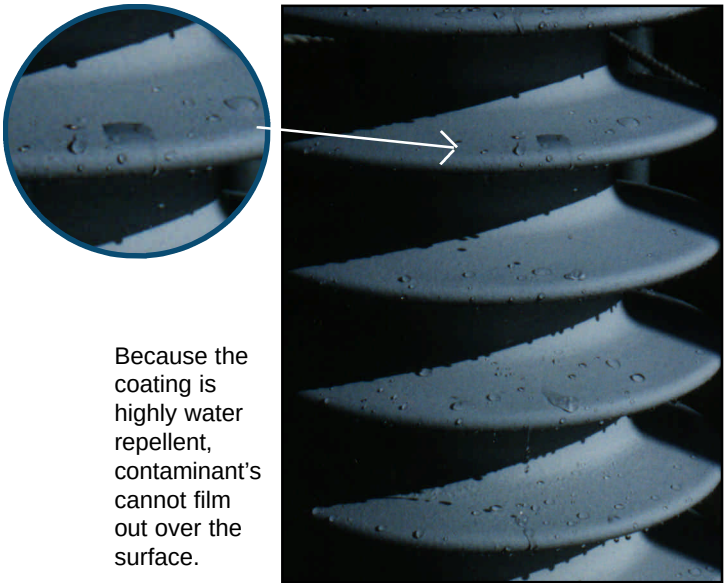
**Midsun 570 HVIC™** Silicone Coating can eliminate or reduce:

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

**Midsun 570 HVIC™** Silicone Coating has proven superiority:

- over competitors first, second and third generation silicone coatings.
- in warranting no flashover from the onset leakage current.
- in providing the lowest installed cost in all types of pollution conditions; from road salt spray to fly ash.

**Midsun 570 HVIC™** cures into a flexible silicone elastomer coating that resists ultraviolet rays, ozone and electrical discharges.



Because the coating is highly water repellent, contaminant's cannot film out over the surface.

**P.O. Box 864**
**Southington, CT 06489 USA**
**Phone: (860) 378-0100**
**Fax: (860) 378-0103**

**Midsun 570 HVIC™** room temperature vulcanizing (RTV) silicone rubber coating on glass, porcelain and polymer insulators performs by virtue of its water repellency and its proprietary anti-tracking, flame retardant, adhesion promoter agents. Because the coating is highly hydrophobic contaminant's cannot film out over the surface. The coating will eliminate and or reduce:

- Regular insulator washing.
- Periodic re-application of grease.
- Replacement of components damaged by flashovers.
- Repair silicone sheds and rod damage on composite insulation systems.

## APPLICATION INFORMATION

The insulation surface to be coated must be clean and dry. In most instances, only a water wash followed by a naphtha, IPA or acetone solvent wipe will be needed. In some instances, like insulators in cement plants and other heavily polluted environments, dry blasting with corn cob or walnut shell may be needed. Dry blasting is also recommended for insulators previously greased. Contact the Midsun Group, Inc. for the recommended practice, turnkey blasting and coating services.

Methods of coating insulators include brushing, dipping and spraying. When only a few insulators need to be coated, aerosol spray cans is the recommended method.

Usually one to three coats in sufficient to obtain the recommended minimum thickness of 15 mils (0.015 inches).

When the entire substation is to be coated, spraying is the recommended approach. Spray equipment varies considerably in design and depending on the equipment used, two or three coats may be necessary to obtain the desired thickness. Each coat can be applied as soon as previous coat becomes tacky. This can be up to 15 minutes depending on the ambient temperature and humidity. The liquid surface on coated insulators dries to the touch in approximately 40 minutes and reaches complete cure in several hours. Midsun Group can provide this service at a very cost-effective rate.

**Midsun 570 HVIC™** coating is available for ***live line application***. The non-flammable carrier solvent permits safe application under live conditions. This of course requires the use of tools designed specifically for live application.

## COLORS

**Midsun 570 HVIC™** standard color is white. It is also available in gray and chocolate brown.

## PACKAGING

**Midsun 570 HVIC™** is supplied aerosol cans, 1 gallon cans, 5 gallon pails, and 55 gallon drums.

## STORAGE

**Midsun 570 HVIC™** when stored in original unopened container below 32$^{o}$C (90$^{o}$F) has a shelf life of 12 months from the date of shipment. While in storage, sedimentation may occur. Prior to any application thoroughly stir the material before use.

## SAFETY PRECAUTIONS

**Midsun 570 HVIC™** uses a neutral cure system, so no acetic acid fumes or objectionable by products are evolved during application. On direct contact, uncured sealant may irritate eyes. Flush with water and call a physician. See Material Safety Data

## TYPICAL PROPERTIES

| As Supplied | |
|---|---|
| Type | One-part, RTV |
| Appearance | Paint |
| Specific Gravity | 1.30 |
| Color | White or Gray |
| Application Temperature Range, $^{o}$C ($^{o}$F) | -18 to 50 (0 to 122) |
| Usage Temperature Range, $^{o}$C ($^{o}$F) | -4 to 121 (25 to 250) |
| Cure Method | Oxime |
| Skin-over time as standard conditions*, min | 15 |
| Tack free at standard conditions*, min | 30 |
| Percent Solids (by volume) | 70.78 |
| Viscosity, cp | 2,000 ± 300 |
| As cured - at standard conditions* for 7 days | |
| Dielectric strength, Kv/mm (ASTM D149) | 15,4 |
| Volume resistivity, ohm.cm (ASTM D257) | 9.0x10$^{14}$ |
| Dissipation Factor (ASTM D150) at 100Hz | 0.059 |
| Tracking wheel withstand, min updated results on 7/16/2007 | 1000 |

* Standard conditions are 25C (77F) and 50% relative humidity

## WARRANTY STATEMENT

The product is warranted to meet its specifications. In no event shall Midsun be liable for incidental or consequential damages. Except as expressively stipulated, any liability, expresses or implied, is limited to the stated selling price of any defective goods. Data is subject to change without notice and its is therefore recommended that this information not be used for specifications writing. For additional information on specific applications, contact Midsun Group for writing specifications.

## No Flashover Warranty Statement

When **Midsun 570 HVIC™** is applied by or under the direct supervision of the Midsun Group, **Midsun 570 HVIC™** is warranted to prevent flashovers from the onset of leakage current. Call Midsun Group for specific terms and conditions.

MIDSUN GROUP™

**PRODUCT DATA**