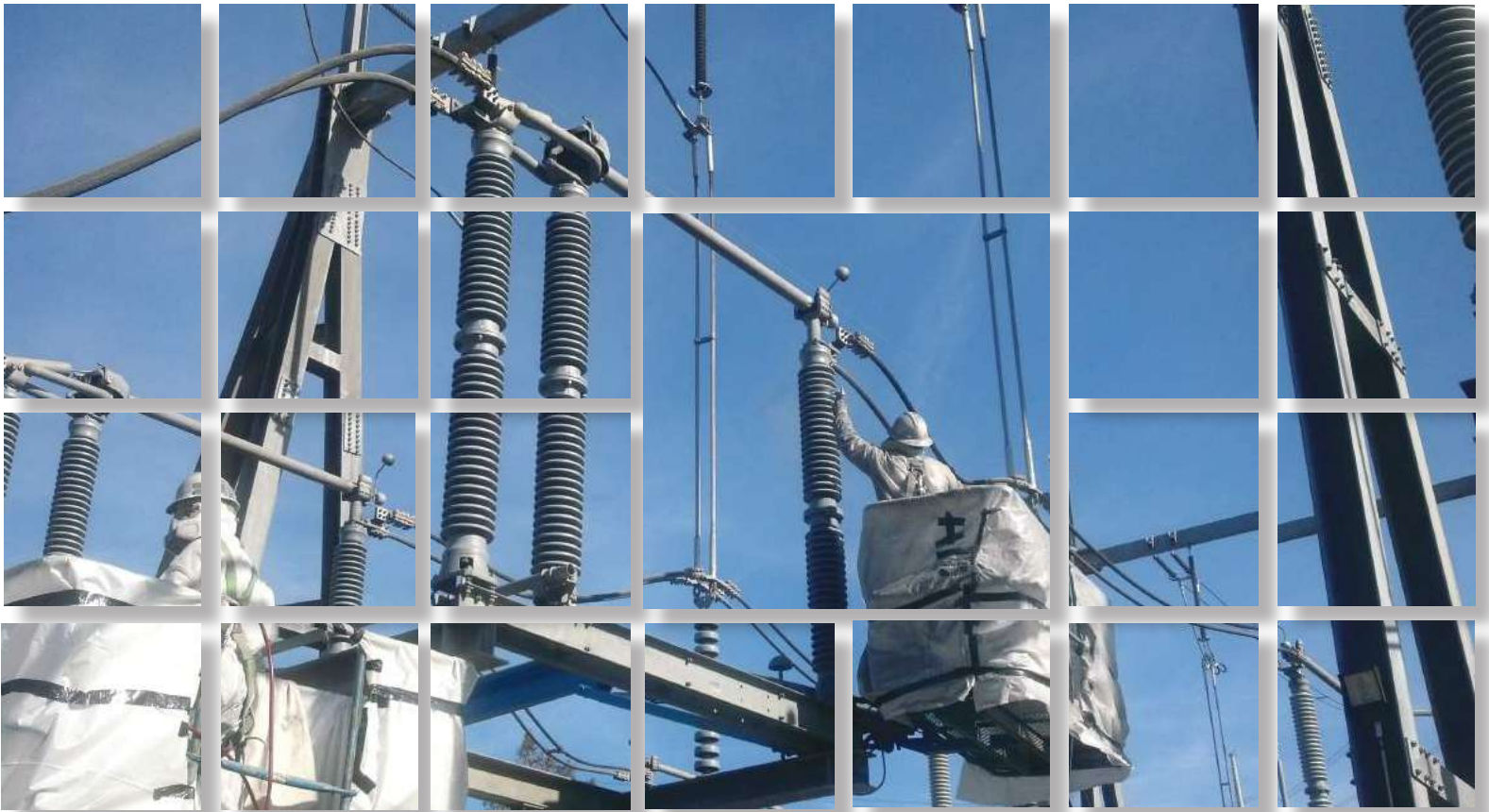


MIDSUN GROUP

570™ HVIC

FLASHOVER PROTECTION



135 REDSTONE STREET
SOUTHINGTON, CT 06489
860.378.0100
WWW.MIDSUNGROUP.COM

Midsun 570™ High Voltage Insulator Coating

Unparalleled Flashover Protection for Reliable Service

Why?

For a long term, cost effective and reliable product, only Midsun 570™ HVIC silicone coating provides a near maintenance free system that can prevent excessive leakage current, tracking and flashovers.

Midsun 570™ HVIC silicone is not affected by UV light, temperature, corrosive environments, or ATH pitting from dry band arcing.

The coating is also highly water repellent, so contaminants cannot film over the surface. It is a long-term solution to flashover problems. We offer turnkey live line application applied by Midsun OSHA certified applicators.

Midsun 570™ HVIC Silicone Coating can eliminate 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.

Protect against flashover contamination:

- Salt
- Coal Dust
- Cement Dust
- Sugar Cane Carbon
- Fly Ash
- Bird Droppings / Streamers
- Cooling Towers

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 contaminants cannot film out over the surface.



Application

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 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 is 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 colors are white and gray.

Packaging

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

Storage

When stored in original unopened container below 25°C (77°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. Store out of sun, under dry conditions away from heat.

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 Sheet.

Typical Properties

Flash Point Temperature	*65°F (18°C)
Dielectric Strength	35.9 kV/mm
Dissipation Factor @ 100 Hz	0.021
Tracking & Erosion Resistance @ 2.5kV/min	1000 hours withstand
Dielectric Constant @ 100 Hz	3.85
Specific Gravity	1.28 (±0.04)
Viscosity	3500-5500 CPS
Application Temperature Range	32- 120°F (0-50°C)
Coverage	Min. 15 Mils
Est. Skin-over time @ 25°C; 50% relative humidity	15 Min.
Est. Tack-over time @ 25°C; 50% relative humidity	30 Min.
Usable Temperature Range	-40 - 300°F (-40 to 148°C)
Storage Time & Temperature	1 year< 77°F (25°C)
*Export Flash Point Temperature	*103°F (39.4°C)

Warranty Statement

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

No Flashover Warranty Statement

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

Midsun **Energized** 570™ HVIC Stops Pollution Induced Outages.

Midsun **Energized** 570™ HVIC is the only coating offered today that allows for energized applications.

Midsun **Energized** 570™ HVIC is a uniquely formulated Room Temperature Vulcanization coating, it offers utility companies worldwide the opportunity to perform quality maintenance for pollution induced outages, without having to experience costly shut downs.

The expense for Midsun **Energized** 570™ HVIC in most cases is less expensive than our competitors de-energized RTV insulator coatings.

Midsun Group, Inc. is the only manufacturer to offer both coating and the application service with a “in house” trained and employed work force.

Applications are performed by Midsun Group trained technicians which guarantees top quality work and allows for warranties to be offered for most projects. Midsun **Energized** 570™ HVIC can be applied to all equipment up to 230 kV.

Midsun **Energized** 570™ HVIC stops flashovers anywhere in the world guaranteed.

Midsun **Energized 570™ HVIC application helps reduce:**

- **Costly maintenance shut downs.**
- **Unnecessary wear and tear on system back up units.**
- **Reliance on peak loading generation.**
- **Pollution caused outages.**
- **IPP contract fines.**



Company Profile

Organized in 1992, Midsun has experienced a steady growth each year to date. Our goal every year has been simple; to become the very best product and service resource for the power utility, telecommunications, and manufacturing industries. Within the relatively narrow niche that is our business focus, we strive to excel in terms of product, services, price, performance, and delivery.

We provide utilities worldwide with services and products which increase reliability and save utility companies millions of repair dollars. Midsun Group, Inc. not only manufactures a line of no outage products known as E/ Products, but also provides turnkey installations with a no outage warranty, hands on demonstrations and training, and formal technical lectures.

Midsun offers a level of personal service that is simply unmatched by the “big” suppliers. If you have ever contacted a “big” company for customer service, application contracting, or technical support, you were probably treated as a client with a dollar amount attached. Not at Midsun; because of our small and knowledgeable staff we are able to provide you with professionalism, detailed descriptions of our product line, courtesy, diligence, quality, and immediate mobilization.

If we do not have what you want we can get it for you. If what you want does not exist we will find a way to create it. Midsun can design custom products to meet your specific needs. We own the patents on many of the unique products that we distribute and we enjoy the challenge of finding unique and cost effective solutions for our customers.

Additional Midsun Group Services

Turnkey Live Line Application
Silicone Products

Corrosion Protection
Paintable Insulation

Animal Mitigation
Custom Cover Design



TURNKEY APPLICATION

Our diligent applicators will ensure that our products are applied at an optimal thickness and in a safe manner.

Midsun can mobilize a crew very quickly, we offer turnkey application for:

- Midsun 570™ High Voltage Insulator Coating
- Midsun 570™ Energized (HVIC)
- Midsun Silprocoat
- Midsun 587 Paintable Insulation
- Energized Cleaning Service
- Stopaq® Corrosion Healing Tape
- Animal Mitigation Products

By choosing our turnkey application, you will experience a stress-free service. Our seasoned employees will make sure that the application is completed correctly and efficiently.



To learn about our newest products & latest application work, follow us on:



Twitter:
@midsungroupinc



Google+:
+MidsunGroupIncSouthington



YouTube:
youtube.com/user/MidsunGroup



LinkedIn:
Midsun Group, Inc.

