





# POWERSIL® HVIC

#### Silicones in T&D

Thanks to their molecular structure, silicones are the perfect solution for insulating applications in the T&D sector.

For example, silicone composite insulators covered with pollution layers have much lower leakage currents than insulators made of porcelain, glass or EPDM. This prevents pollution flashovers, even if the surface is extremely dirty.

With the POWERSIL® products, WACKER was the first silicone manufacturer to offer its customers a complete range of insulating and electrically conductive silicone rubber grades for medium- and high-voltage applications. Silicone products from WACKER have been used to make generations of composite insulators and other insulating components.

## Advantages of POWERSIL® HVIC

POWERSIL® silicone coatings are usually applied to conventional insulating parts made of glass or porcelain that are exposed to dirt and wet conditions, thus to the risk of failing by pollution flashover, providing the following advantages:

#### Higher operational reliability

Low leakage current measured in microamps is the norm due to the outstanding hydrophobic properties. Pollution flashovers can thus be avoided, even if the surface is very dirty or wet.

### Retrofitting of existing installations

Silicone coatings offer a cost-effective option for hydrophobic coating of insulators made of porcelain, glass, or epoxy resin. This saves the costs for periodic cleaning or for a replacement with composite insulators.

#### Longer service life

Silicone coatings extend the service life of existing installations, thus contributing to effective resource management. Experience has shown that POWERSIL® silicone coatings reach at least 10 years of service life. Some manufacturers of porcelain and glass insulators have recently started to promote the application of silicone coatings in their supply chain to make their products water repellent.



# PRODUCT OVERVIEW – POWERSIL® HVIC GRADES

# Three Types to Meet Customer Expectations

All three share the following characteristics:

- Ready-to-use
- Perfect primerless adhesion
- Excellent hydrophobic properties
- Outstanding tracking resistance

# What Does an Applicator Need to Get Started?

- Spraying equipment (e.g. airless spray equipment or high pressure pumps)
- Safety equipment (e.g. respirator mask, safety glasses, gloves, safety belts, ...)
- Thickness measuring device
- POWERSIL® HVIC
- Application guide

Silicone HVIC from WACKER				
Туре	Solvent	Colors 1)	Reinforcing Additive	Modifying Additive
POWERSIL® 567	Organic	Light grey, transparent	Silica	-
POWERSIL® N 553	Organic	Dark grey	Silica	Aluminium hydroxide
POWERSIL® 577 Plus	Water	Light grey	Silica	Aluminium hydroxide

<sup>&</sup>lt;sup>1)</sup>Color and curing system can be adjusted to customer requirements depending on the order size. Please inquire at your responsible sales office. Selected HVIC types have been tested in the 1,000 h Salt-Fog-Test (according to IEC 62217).

For detailed product properties please refer to the Technical Data Sheets available for download at www.wacker.com.



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