



Aidchim Ltd.



P.O.Box 103, Raanana 43100, ISRAEL

Phone: +972- 9-744-8888

Fax: +972-9-741-4133

mailto:info@aidchim.com

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Silicaid[®] 306/50

Characteristics:

SILICAID[®] 306/50 is specially designed Silicone paste dispersion for coating high voltage insulators.

It can be sprayed with airless spray insulations in a very thin layer avoiding brushes and rag applications.

A film of 1-2 mm may give excellent protection for minimum 2 years.

Applications:

For coating high voltage insulators, protecting them against contamination and thus avoiding corona discharge, surface leaking, etc.

Product Properties:

1. As Supplied

Supplied as : 50% (v/v) paste
Appearance : Colorless to gray
Viscosity : Very tixotropic
Specific gravity (gr/cm³). . . : Approx. 1.2
Solvent : HCFC+Alcohols or as requested by customer.

2. Silicaid1010 = The Film on the treated surface

Penetration (unworked) : 210 - 260
Penetration (worked 60 strokes) . . . : 310 max.
Service temp. (range °C) : -57°C to 204°C (for long periods).
Bleed (200°C/30 hours) : 8% max.
Evaporation (200°C/30 hours) : 2% max.
Arc resistance : 60 seconds min.
Volume resistivity (OHM - cm) . . . : 10 X 10¹³ min.
Electrical strength (KV - mm) : 10 min.
Dissipation factor : 0.25% max.
Dielectric constant (50 HZ, 1 KHZ) . . . : 2.9 max.
Thermal conductivity (K factor) : 5 X 10⁻⁴

Shelf Life:

SILICAID[®] 360/50 has a shelf life of minimum 12 months if stored in tightly closed original container.



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How to Use:

1. Equipment

- a) Wagner-Airless 4000H or 7000H with drawing in pipe and high pressure pipe towards the pistol
- b) Pistol G 20-1 (or alternatively 2 pistols)
- c) Airless convertible nozzle 28 or equivalent.

2. Application

After a short mixing the material will be pumped directly from its container.
Airless spray should work at 200 bars max.

Spraying at 100 bars, using nozzle 28 at a 30-40cm distance gives the following results:

Nozzle opening	Width of spray	Coating thickness achieved
1	200mm	0.3-0.4mm
2	300mm	0.5-0.6mm
3	400mm	0.4mm
4	0.3-0.4mm	0.3-0.4mm

Intermediate Nozzle opening is possible to achieve different insulation coating thickness.
In order to get thicker insulation repeat spraying on the surface until the required thickness achieved.

Safety Instructions:

Although Silicones are particularly inert physiologically and appear to be essentially non-toxic, temporary discomfort may be produced from eye contact with them.

For further information please consult SILICAID® 306/50 MSDS.

Packaging:

Standard: 25kg.

Other sort of packaging can be used in order to meet specific customer requirements.