



## INSULECT SK-03

### Product description:

**INSULECT SK-03** is a composite electric insulation coating designed to impart high electric strength for various electrical applications. INSULECT SK-03 is highly hydrophobic in nature and is having excellent water repellent properties. INSULECT SK-03 film helps to avert the leakage currents, resulting into reduction in contamination flashovers.

**INSULECT SK-03** coating offers excellent U.V. radiation resistance coupled with tracking resistance which makes its use beneficial for outdoor exposure and in extreme weather conditions.

### Product highlights:

- Di-Electric strength 59 KV/mm.
- Stable up to 200 °C
- Excellent resistance to UV radiation (suitable for outdoor exposure).
- Excellent resistance to transformer oil.
- Tough and Scratch resistant (excellent puncture resistant),
- Excellent Corrosion Resistance
- Quick Drying at Room Temperature

### Recommended use:

A unique formulation specifically designed for use in electrical safety applications. To be used on Busbar in control panels, on ceramic insulators, on poles & cross arms, as Insulating coating in front of control panels as replacement of rubber mats, on current carrying conductors & similar live parts to avoid accidents.

### Film thickness and breakdown voltage:

INSULECT SK-03 Grade	Breakdown voltage	Min. DFT Required	Spreading Rate [Approximate]
INSULECT SK-03L	5 KV	100 Microns	22 sq. ft./liter
INSULECT SK-03M	11 KV	300 Microns	15 sq. ft./liter
INSULECT SK-03H	22 KV	600 Microns	12 sq. ft./liter
INSULECT SK-03UH	33 KV	800 Microns	10 sq. ft./liter

### Surface preparations:

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.



**Surface conditions:**

- Temperature of the substrate - Minimum 3°C above the dew point of the air temperature
- Relative humidity - Maximum 80 % measured in the vicinity of the substrate.
- Ventilation - Good ventilation is required in confined areas

Do not use heated air until the solvents (Thinner) have evaporated (flashed off) from the paint film to avoid surface drying and solvent entrapment. During application and the initial drying of the coating, the object should not be exposed to high humidity as this can result in loss of gloss.

**Application methods:**

Spray – Use Air Assisted Spray

Brush – Recommended for coating small areas, care must be taken to achieve the specified dry film thickness.

Roller – May be used for small areas, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

**Application data:**

- Mixing ratio - Single Pack System. (No Mixing of Two Components)
- Pot life - Not Applicable (Can be used for six months after opening the Container)

**Drying time:**

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with **INSULECT SK-03L** and for higher grades the drying time may be longer depending upon the thickness required. \* Good ventilation (Outdoor exposure or free circulation of air) \*

Substrate temperature	-10°C	0°C	10°C	23°C	40°C
Surface dry (dry to handle)	30 min	25min	20 min	15 min	10 min
Hard dry	72 hours				
Dry to recoat, minimum	30 minutes minimum (for testing purpose- 7 days)				

**Handling coated jobs:**

Do not stack coated components one over other immediately after coating.



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**Storage:**

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

**Handling the containers:**

Handle with care. Stir well before use. Do not leave the container open after use. Pack it air tight.

**Packaging size:**

1, 5, 20 liters Metal Containers

**Health and Safety:**

Please observe the precautionary notices displayed on the container & in our MSDS. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

**Disclaimer:**

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

ISSUED ON 14 NOVEMBER 2019 BY SK FORMULATIONS INDIA PVT. LTD.

THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.

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