



DOWSIL™ FC 227 TS Fabric Coating

Solvent solution of a reactive silicone polymer

Features & Benefits

- Imparts crease resistance to cellulosic fabrics and blends
- Good water repellency
- Light weight fabric coating
- Fast curing
- Flowable, low viscosity

Applications

- Designed to be applied to fabrics using conventional equipment such as knife on roller and floating knife.
- The DOWSIL™ FC 227 TS Fabric Coating system gives coaters of textile substrates an added dimension to their range, enhancing the performance of fabrics used in the construction of outdoor materials or technical fabrics.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

| CTM ¹ | Property | Unit | Result |
|------------------|---------------------------------|-------|-------------|
| 0176B | Color | | Light straw |
| 0242F | Non-volatile content | % | 31 |
| | Diluent | | Toluene |
| | Specific gravity at 25°C (77°F) | | 0.8–0.9 |
| 0050EF | Viscosity RVT NO 4 at 5 rpm | MPa.s | 15,000 |
| | Flash point (closed cup) | °C | 5 |
| | | °F | 41 |

1. CTM: Corporate Test Method, copies of CTMs are available on request.

How to Use

DOWSIL™ FC 227 TS Fabric Coating is a solvent based reactive silicone polymer system that is to be used together with a cure catalyst. A suitable catalyst is typically dibutyltin bis (2-ethylhexanoate), commercially available as FASCAT 4208x (Fascats Catalysts).

How to Use (Cont.)

Mixing

FASCAT 4208x should be mixed with DOWSIL™ FC 227 TS Fabric Coating in a 1.5:100 ratio by weight. To obtain a stable bath, small additions of glacial acid, 0.5% on the silicone polymer weight, may be needed. Bath life, which varies from 4–8 hours, can be prolonged by addition of small amounts of higher alcohols. It is also possible to reduce viscosity of the mix by adding 1 part of xylene by weight.

Coating and Curing

DOWSIL™ FC 227 TS Fabric Coating can be applied to fabrics by conventional coating techniques such as knife over roller or knife over air to achieve thin coating thickness. It may also be successfully applied in various patterns using a screen printing process. After application, the drying oven should be set so that a good integral film is obtained. The final cure conditions are typically 1–3 minutes at 130–150°C (266°F–302°F).

Handling Precautions

- Contains a flammable solvent.
- Use in a well ventilated area.
- Do not inhale vapours for prolonged periods.
- Keep away from sparks, heat and open flames.
- Avoid contact with the skin and eyes.
- As catalysed solutions liberate a small quantity of hydrogen, they should not be stored in sealed containers.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 25°C (77°F) in the original unopened containers, DOWSIL™ FC 227 TS Fabric Coating has a usable life of 8 months from the date of production.

Packaging Information

DOWSIL™ FC 227 TS Fabric Coating is available in 170 kg drums and 17 kg pail.

Samples are available in 0.45 kg bottles.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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