



Technical Data Sheet

XIAMETER™ CTG-1890 Protective Coating

One-part, protective silicone rubber coating for motors and electrical equipment

Features & Benefits

- Provides excellent moisture resistance and protection from sand and dust particles
- Ease of handling (can be applied in the field or shop by brushing or spraying)
- Good electrical insulating properties
- Adhesion to painted or unpainted metal, glass and wood surfaces
- Room temperature cure
- Flexibility from -75 to 350°F
- (-59 to 177°C) for continuous use and up to 400°F (204°C) for intermittent use
- Resistance to ultraviolet radiation, weathering
- Tack-free within 25 minutes; forms rubbery overcoat in a few hours
- FDA 21 CFR 177.2600
- Electrical equipment completely coated with XIAMETER™ CTG-1890 Protective Coating can be readily cleaned by hosing with water

Composition

- One-part silicone rubber coating
- Supplied as a thick liquid, cures to a rubbery solid

Applications

XIAMETER CTG-1890 Protective Coating is a general purpose coating material providing extra protection to such electrical equipment as:

- Motor stator windings – Protects insulated motor windings from: dust occurring in quarries, cement plants, mines, taconite mills; moisture in dairies, food processing plants, paper mills, bottling plants; chemicals in tanneries, packing and dye houses, fertilizer plants
- Bus bars – Exposed bus bars can be quickly coated by brushing on XIAMETER CTG-1890 Protective Coating
- Splices and connectors – Provides insulated splices with additional protection against ultraviolet radiation, water and moisture; exposed connections covered with this coating are protected against contaminants and corrosive fumes
- Transformers – Insulates the tops of distribution transformers and prevents short circuits caused by animals bridging between exposed terminals and the grounded tanks; also prevents short circuiting caused by birds or animals on other equipment
- Wooden pole tops and insulator pins – Prevents pole-top damage resulting from weathering and moisture when used to seal the end-grains of wooden poles; applied to wooden insulator pins and crossarms; prevents damage due to current tracking and subsequent burning

UNRESTRICTED – May be shared with anyone

™ The DOW Diamond and XIAMETER are trademarks of The Dow Chemical Company

XIAMETER™ CTG-1890 Protective Coating

© 2017 The Dow Chemical Company. All rights reserved.

Typical Properties

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

Property	Unit	Result
Color		Gray
Average Build per Dip	mils	25–30
Thinner		VM&P Naphtha
Skin-Over Time	minutes	15
Tack-Free Time	minutes	25
Viscosity	poise	400
Durometer Hardness, Shore A	points	21
Flash Point, closed cup	°F (°C)	50 (10)
Electrical Properties – As Cured 7 days at 77°F (25°C) and 50% RH		
Dielectric Strength	volts/mil	430
Dielectric Constant		
100 Hz		2.5
100 kHz		2.5
Dissipation Factor		
100 Hz		0.00007
100 kHz		0.000181
Volume Resistivity	ohm-cm	2 x 10 ¹⁵

Use Limitations

XIAMETER CTG 1890 Protective Coating is not recommended:

- For continuous underwater immersion where adhesion or structural bonding is required
- On concrete, brick, mortar or other masonry surfaces
- On surfaces to be painted; paints do not adhere well to sealant (paint before applying sealant)
- On materials such as impregnated woods or oil-based caulks that bleed oils
- In totally confined areas; atmospheric moisture is required for cure
- On Teflon®-coated materials, polyethylene, polypropylene or methylmethacrylate (Plexiglas®); sealant will not adhere well
- On or near sensitive metals such as copper, brass, zinc, carbon steel, galvanized iron or magnesium; these metals may be corroded, especially in confined cure conditions, due to the acetic acid released during the cure

Listings/ Specifications

FDA 21 CFR 177.2600

How To Use

Clean and dry all surfaces to be coated before applying this coating. XIAMETER CTG 1890 Protective Coating Gray can be applied as received by brushing on with a stiff-bristle nylon brush. If spraying is preferred, this dispersion can be thinned with VM&P naphtha to provide the optimum viscosity required for spraying equipment. Only normal brushing or spraying techniques are needed.

UNRESTRICTED – May be shared with anyone

®™ The DOW Diamond and XIAMETER are trademarks of The Dow Chemical Company

XIAMETER™ CTG-1890 Protective Coating

© 2017 The Dow Chemical Company. All rights reserved.

Handling Precautions	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 WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life And Storage	Product should be stored at or below 32°C (90°F) in original, unopened containers.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Shipping Limitations	DOT Classification: Flammable liquid.
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, www.consumer.dow.com or consult your local Dow representative.

Plexiglas is a registered trademark of Arkema.
Teflon is a registered trademark of E.I Dupont de Nemours and Company.

<http://www.xiameter.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

