



DC310 Fireproof Cable Coating

Description

DC310 fireproof cable coating for wires and cable is developed using innovative intumescent technology. It is a heavy duty intumescent coating for interior applications used to effectively prevent flame spread. When fire occurs, the coating will rapidly intumesce to form a foam char layer that prevents fire propagation. DC310 fireproof cable coating is water based, asbestos-free, non-halogenated and environmentally-friendly. DC310 is able to protect cables for up to 90 minutes at 1,100 C as per UL 1709 hydrocarbon temperature curve.

Specifications

Color :	White
Finish :	Flat
Density:	1.3±0.1 kg/L
Viscosity:	10000-25000cps(25°C); Adjustable
pH:	7.5±0.5
VOC:	56 g/L
Typical thickness:	1mm WFT equivalent to 0.6mm DFT
Solid content:	≥60% Volume
Storage temp:	40° F - 95° F (5° C - 35° C)
Drying time (25° C) :	3-4 hours touch dry, 24 hours dried through
Application Temp:	40° F - 86° F (5° C - 30° C)
In-Service Temp:	-4° F - 158° F (-20° C - 70° C)
Relative Humidity:	80% maximum
Packaging:	25 kg/pail
Shelf life:	12 months

Advantages

- Intumescent
- Water Based
- Low Odor
- Asbestos Free
- Flexible
- Safe and Easy to Use



Testing

IEEE383- Standard for Qualifying Electric Cables and Splices for Nuclear Facilities

IEC60332-3A- Test of vertical flame spread on single or grouped electrical cables

IEEC60331-11 - Tests for Electric Cables under Fire Conditions - Circuit Integrity

IEC60331-21-Tests for Electric Cables under Fire Conditions - Circuit Integrity

UL1709 - Rapid Rise Hydrocarbon Fire Curve

GB28374- Standard flame spread test of electrical cables.

ASTM D5116 - Determination of Organic Emissions from Indoor Materials/Products

ASTM E662- Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

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Recommended sprayer:

Pump:	Wagner PS 3.34
PSI:	3300
GPM:	1.00
Tip:	517 – 523 or equivalent.
Filter:	60 mesh at machine
Hose:	3/8" diameter airless spray line for the first 100' from pump and 1/4" x 3' whip
Pump:	(Graco) TexSpray Mark 5 or equivalent
PSI:	3300
GPM:	1.35
Tip:	517 - 523 or equivalent.
Filter:	60 mesh at machine, removal of filter is recommend from gun
Hose:	3/8" diameter airless spray line for the first 100' from pump and 1/4" x 3' whip



Installation guide:

1. Surfaces to be coated must be clean and dry. Use a dry rag to remove any oil, grease, and dirt prior to cable coating application.
2. Mix DC310 cable coating thoroughly by a power agitator before application. Thinner is normally not required. If necessary, use potable water (3% max.) to adjust viscosity. Water is also used for tools and spray machine cleaning.
3. Coating can be applied by means of airless spray equipment in a single pass, not more than 1mm-1.2mm (wet coating thickness) to prevent slumping. Surface shall be measured using a wet film thickness gauge. If applying coating by brush or roller, it may be required to apply thinner coats to prevent slumping. The coating should be applied when site temperature is between 5° C (40° F) and 40° C (104° F) and less than 80% relative humidity. Temperature must be maintained until coating has fully dried.
4. Verify the DFT by using calipers to measure the cable before coating and once coating has fully dried.
5. Do not allow the coating material to remain in hoses, gun or spray equipment. Clean all equipment with water immediately after use.
6. All unused coating should be stored in tightly closed container. Surface skinning may show in a partially filled container. Filter the material prior to use.

