



DC6150 Cable Coating



Application Guideline



Approved

DC6150 Cable Coating

DC6150 Cable Coating is a non-halogenated, asbestos-free, non-toxic flexible fire retardant cable coating. DC6150 is designed to prevent the propagation of fire along plastic jacked electrical cables. DC6150 Cable Coating is FM Approved and tested to ensure it can withstand extreme conditions such as freeze/thaw cycles and salt water immersion. This testing also ensures that the protective coating does not de-rate the cables current carrying capacity. DC6150 Cable Coating is composed of water based latex and is suitable for both interior and exterior usage.

Characteristics:

- Color White
- Odor Mild latex
- Gloss level Matt
- Specific gravity 1.55 ± 0.1
- Solids (by weight) 70 ~ 76%
- pH value 6 ~ 8
- Dry to touch 2 ~ 4 hours
- Dry through 2 ~ 4 days (Depending on ambient conditions)
- Application Airless spray, brush or roller
- Typical thickness 1000 microns WFT (39.5 mils) equivalent to 640 microns DFT (25 mils)
- Packaging 25Kg/pail

Installation:

1. Surfaces to be coated must be clean. Oil, grease, and dirt should be removed with dry rags prior to cable coating application.



- Mixing INCA DC6150 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 for tools and spray machine cleaning.



- 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 measure by wet film thickness gauge. If paint by brush or roller, thinner coat to prevent slumping may be required. The coating should be applied when site temperature are between 4°C(40°F) and 40°C(104°F).



- Recommended coating thickness on cables: Wet approx. 2.5mm resulted in 1.6mm dry coating to meet Factory Mutual (FM) approval requirements for the protection of cables. Measuring the DFT by using caliper after fully curing.

Recommended sprayer:

Model: Wagner PS 3.34 (3300psi)

Filter in machine: 60 mesh

Filter in spray gun: 100 mesh

Tip: 517~523 (Refer to the following chart)

		Orifice Size - Inches																	
		.007	.009	.011	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.033	.035	.039	.041	
Fan Width	2-4 (51-102)	107	109	111	113	115	117	119	121										
	4-6 (102-152)	207	209	211	213	215	217	219	221	223	225	227	229	231		235	239		
	6-8 (152-203)	307	309	311	313	315	317	319	321	323	325	327	329	331		335	339	341	
	8-10 (203-254)	407	409	411	413	415	417	419	421	423	425	427	429	431	433	435	439	441	
	10-12 (254-305)		509	511	513	515	517	519	521	523	525	527	529	531	533	535	539	541	
	12-14 (305-356)		609	611	613	615	617	619	621	623	625	627	629	631	633	635	639	641	
	14-16 (356-406)			711	713	715	717	719	721	723	725	727	729	731	733	735			
	16-18 (406-457)				813	815	817	819	821	823	825	827	829	831	833	835	839	841	
	18-20 (457-508)					915	917	919	921	923	925	927	929	931	933	935	939		
		Flow rate (gpm)	.05	.09	.12	.18	.24	.31	.38	.47	.57	.67	.79	.90	1.03	1.17	1.31	1.63	1.8
	Flow rate (lpm)	.20	.33	.49	.69	.94	1.17	1.47	1.79	2.15	2.54	2.69	3.42	3.90	4.42	4.98	6.18	6.83	

(water @ 2000 psi, 13.8 MPa, 138 bar)

5. Do not allow the coating material to remain in hoses, gun or spray equipment. Clean all equipment with water immediately in work stoppages or 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.
7. Thickness measurement – thickness of painted layer can be checked by wet film thickness gauge. The DFT can be checked by caliper.

Limitations

- DC6150 cable coating is not suitable to be used in areas under continuous water immersion or continuously wet. It is recommended that a sample test be undertaken before use.
- DC6150 cable coating is conductive until dry. Do not apply to energized electrical conductors

Estimating

- **The estimated quantity of DC6150 can be calculated as = Width of cable tray X Pi (i.e. 3.1416) X Length of cable tray X 2.5mm (thickness of wet film. All coating approved by FM3973 is requested in same thickness) X 1.30 (or 1.20; this is the wastage during the work which is usually 20~30%).**



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