

Substrate & Surface Preparation

General Normally applied to electrical cables. Before applying INTUMASTIC 285, the cable surface must be free of all oil, grease, condensation, or other contamination. The surface should be dry before application.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General Guidelines:

Mixer Use a ½" drill with a Jiffy Mixer or slotted paddle.

Pumps

Mfg. & Model	Type	Modification	Power & Max. Output
Graco 5:1 Bulldog	Piston	Even-flo Regulator Valve	Compressed air 4.6 gpm (17 lpm)
Graco 10:1 Bulldog	Piston	Even-flo Regulator Valve	Compressed air 1.7 gpm (6.4 lpm)
Graco 30:1 Bulldog	Piston	None	Compressed air 3.0 gpm (11.0 lpm)

Compressor Air volume and pressures required will depend on equipment used. Be certain that the air supply is a minimum 75 cfm at 100 psi (6.9 kPa).

Material Line Minimum ¾" (19mm) hose is recommended for all pump recommendations listed above. For hose over 50' (15.3m) in length, 1½" (43mm) I.D. is recommended. A 10' (3m) length of ¾" (19mm) I.D. hose may be added at the gun to facilitate ease of handling. Minimum bursting pressure on material lines should be 1000 psi (68.9 kPa) when using 5:1 or 10:1 pumps. When using a 30:1 pump, minimum bursting pressure on material line should be 3000 psi (206.7 kPa).

Air line Minimum 100 psi (6.9 kPa). Use 3/8" (9mm) I.D. line from gun to Even-flo Regulator Valve. Use an air adjusting valve (e.g. DeVilbiss PH5516) attached at the gun end for atomization control.

Spray Guns

Mfg.	Model	Fluid Tip	Air Cap
Binks	7E2	47 or 49	3/8" or ½"
Graco	204000	164331	160658
For Airless Spray:		Revers-A-Clean Tip	Air Cap
Graco Mastic Golden Gun		.059 - .063 inch (1.5 - 1.6 mm)	N/A

Mixing & Thinning

Mixing INTUMASTIC 285 should be mixed to a uniform consistency before use. The product may be thinned with clean, potable water up to 5% by volume. Excessive thinning should be avoided as this will affect film build.

Application Procedures

INTUMASTIC 285 may be sprayed airless provided the material be thinned with potable water at one pint per five gallons of material, and not to exceed one quart per five gallons of material. Thinning must not exceed 1 quart per 5 gallons of INTUMASTIC 285. A "Revers-A-Clean" tip is recommended for the ease of application. Modification to the Graco airless pump requires the Even-flo Regulator Valve (supplied by Graco Co.) for air atomization of the INTUMASTIC 285 for the guns listed.

Installation can also be made by either palming or trowel.

Palming: Hand application of the mastic may prove to be more economical when cables are "ganged" or for protecting individual strands. Rubber gloves are recommended.

Trowel: Standard plasterers hawk and trowel may be used for applicable conditions. Selection of instruments is left to the discretion of the applicator.

Application Conditions

	Surface or Ambient Temp.		Relative Humidity	
	Minimum	Maximum	Min.	Max.
Interior or Exterior	40°F (4°C)	95°F (35°C)	0%	90%

Do not apply when the surface temperature is less than 5°F or 3°C above the dew point.

Special thinning and application techniques may be required above or below normal conditions.

INTUMASTIC® 285

Finishing

Textured finish varies depending on method of application.

Protection of Adjacent Surfaces

Finished surfaces shall be protected from damage and overspray. Encapsulation of aluminum electrical conduits is not recommended.

Curing

Normal dry times for INTUMASTIC 285, at a wet thickness of 1/8" (3.2mm), is dry-to-touch in 24 hours at 70°F (21°C) and 50% RH, and final cure in 15 days at 70°F (21°C) and 50% RH. These times are dependent on thickness, humidity and temperature.

Caution: Do not start work if ambient temperatures are expected to drop below 35°F (2°C) for 24 hours after application.

Cleanup & Safety

Cleanup

Pump, mixer and hose should be cleaned with clean, potable water at least once every 4 hours at 70°F (21°C), and more often at higher temperatures. Wet INTUMASTIC 285 overspray must be cleaned up with soapy or clean, potable water. Cured overspray may require chipping and/or scraping to remove.

Safety

1. For eye contact, flush with copious amount of water in accordance with OSHA instructions. Goggles or safety glasses are recommended.
2. Wash skin with clean water to prevent irritation.

Caution

INTUMASTIC 285, like most water based coatings, is electrically conductive until it thoroughly dries. Extreme caution should be exercised when the material is applied to energized cables and equipment. The material should never be applied without the supervision of plant safety personnel.

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