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**PROTECTO-COAT 306DTR**

**HIGH SOLIDS, FLAKE FILLED,  
 SELF-PRIMING, DIRECT TO RUST  
 EPOXY COATING FOR EXTERIOR  
 APPLICATIONS, 8-10 MILS**

**FEATURES**

- Can be applied to metal surfaces where abrasive blasting cannot be done.
- Can be top coated with epoxy and urethane Protecto-Coat systems.
- Meets VOC requirements.
- Can be applied directly to galvanized steel surfaces.

**RECOMMENDED APPLICATIONS**

- Tank Exteriors
- Pipe Exteriors
- Water Towers
- Metal Buildings
- Ladders
- Structural Steel
- Chemical Plants

**CHEMICAL RESISTANCE**

- Dilute Inorganic Acid Fumes
- Dilute Alkali Fumes
- Mineral Oils
- Salt Solutions
- Organic Solvent Fumes

**TEMPERATURE LIMITS (METAL):**

Dry - 250°F Continuous

**COLORS:** Standard Color Chart available upon request.

**PHYSICAL PROPERTIES**

Taber Abrasion ASTM D-4060	101 mg.
Flame Spread ASTM D-635	< 5 mm
VOC ASTM D-3960	0.141 lbs/Gal
Volume Solids	85-88%

**SPECIFICATIONS**

**Protecto-Coat 306DTR** shall be an 8-10 mils thick, flake filled, high solids, direct to rust polyamine cured epoxy coating as manufactured by Dudick, Inc. Material can be brush, roller or spray applied in accordance with the manufacturer's recommended practices.

**PROTECTO-COAT 306DTR**

**Protecto-Coat 306DTR** is a two component epoxy coating designed for applications where metal substrates cannot be sand blasted and only loose rust can be removed by wire brushing.

**ESTIMATING QUANTITIES AND  
 ORDER BILL OF MATERIAL**

APPROXIMATE SQUARE FEET PER GALLON	
STEEL	
Protecto-Coat 306DTR	130-140 ft. <sup>2</sup>

\*\*Quantities shown are for estimating purposes only. Actual field usage may vary.

**SURFACE PREPARATION**

Remove any contamination that might be present such as oil or grease by solvent wiping. Then remove loose rust or mil scale by scraping and wire brushing. The surface should be cleaned in accordance with SSPC - SP1 and SSPC - SP2 prior to coating application.

**APPLICATION SPECIFICATIONS**

Temperature of metal substrate must be between 50°F and 110°F.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F above the Dew Point.

**PROTECTO-COAT 306DTR MIX RATIO (BY VOLUME)**

Component A\* 1 gallon  
 Component B\* 116 fl. oz.

Pot life of the mixed **Protecto-Coat 306DTR** will depend on the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the following table:

TEMPERATURE	POT LIFE
50°F	10 hrs.
75°F	4 hrs.
90°F	2 hrs.

Pot life and thin film cure time at 75°F can be decreased by the addition of Accelerator #3 as follows:

Accelerator #3 per Mixed Gal. 306DTR	Pot Life (Minutes)	Thin Film Cure
8-9 Fl. oz.	120 min.	5-6 hours

Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

**APPLICATION INSTRUCTIONS**

Mix the pre-measured units of **Protecto-Coat 306DTR Component A** with **Component B** for 2-3 minutes or until a uniform color is achieved. Apply at 8-10 mils WFT using a brush, roller or spray.

**SPRAY SPECIFICATIONS**

Airless spray is recommended. Use a 30:1 pump equipped with a 60 mesh filter or larger. A Binks airless spray gun with a Reverse-A-Clean Tip is recommended. The nozzle should be tungsten carbide with a 0.017 - 0.026 inch diameter opening and a 25° to 60° fan. Suggested output pressure (depending on temperature) is 1,500 PSI.

Brush or roller application may require additional coats to meet the specified dry film thickness.

Curing and recoat times will vary with temperature. The recommended time between coats, if more than one coat is applied, and before service is:

**Cure Cycles for Protecto-Coat 306DTR:**

TEMPERATURE	RECOAT TIME		CURE TIME
	MIN.	MAX.	
50°F	24-36 hrs. Indefinite		72 hrs.
75°F	16 hrs. 45 days		24 hrs.
90°F	12 hrs. 30 days		18 hrs.

If these recoat times are exceeded, consult a Dudick representative. Sanding or abrasive blasting may be required before the next coat. Recoat times are dramatically reduced when the coating is exposed to direct sunlight.

**TESTING**

If testing is required, spark test the cured coating with an AC spark tester at 100 volts per mil or 1000 volts. Mark and repair all pinholes and retest only the repaired areas.

**CLEANING**

Use **S-10 Cleaning Solvent** to clean tools and equipment.

**SHIPPING**

Refer to Material Safety Data Sheets.

**STORAGE**

**Warning:** All Dudick products classified by DOT with either white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.

Store all products in a cool, dry area away from open flames, sparks or other hazards.



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When stored in their original, unopened containers at 50°F-75°F, **Protecto-Coat 306DTR** components have a six-month shelf life. Storage in direct sunlight or excessive heat will reduce working time and shelf life.

### SAFETY

**M.S.D.S:** Material Safety Data Sheets must always be read before using products. **Protecto-Coat 306DTR** materials are intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied.

If **Protecto-Coat 306DTR** materials are to be applied by your own personnel or by a third party contractor, please be sure that they are aware of the following safety precautions:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.
- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.
- Suitable respirators should be used during application.
- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. **Protecto-Coat 306DTR** liquid can be removed with S-10 Cleaning Solvent, MEK, or lacquer thinner.

- Keep open flames and sparks away from the area where materials are being mixed and applied.
- If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If swallowed, do not induce vomiting; call a physician immediately.

**NOTE:** Dudick, Inc. ("Dudick") warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or sub-contractors shall be performed in a workmanlike manner. Dudick's sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK'S NEGLIGENCE. This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

3/18/10