



DURA-COAT LOW SURFACE ENERGY 290

DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Low Surface Energy 290 is a solvent free, ceramic filled coating designed particularly to avoid build up of stick powders and also provides chemical and abrasion protection. Excellent in a wide array of caustics and acids. Dura Coat Low Surface Energy 290 can be easily applied by brush or roller up to 40 mils without slump.

- It can be applied up to 40 mils without slump
- Suitable for any substrate, steel, bronze, aluminum, concrete
- Suitable for corrosion and abrasion protection

FDA COMPLIANCE

This product complies with FDA regulations, for direct food contact specifically FDA 21 CFR 175.300 and FDA 21 CFR 175.105.

PACKAGES

	SIZE	REORDER #
OPTIONS	1kg	290-01
	2kg	290-02
	7.5kg	290-7.5
	15kg	290-15

APPLICATION AREAS

- Bins
- Screw conveyors
- Blowers
- Silos
- Air moving conveyors
- Fans
- Tanks
- Impellers
- Many others

TECHNICAL DATA

Maximum Temperature (dependent on service)	Wet Service	230°C	446°F
	Dry Service	280°C	536°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Excellent	
	Organic Acids	Excellent	
	Organic Solvents	Excellent	
Solids by Volume		100%	
Mixed Density		1.4	
Shore D Durometer Hardness	(ASTM D 2240)	83	
Pot Life		35 min / kg at 72°F	
Vertical SAG Resistance at 21°C (70°F) and 1 mm (40mils)		No sag	
Coverage for 7.5kg Kit	154sf@20mils	14.3m ² @500 micron	
Mix Ratio	2:1 by weight	Base: Activator	
Color	Gray as standard. Blue and red optional. Other colors contact the manufacture		
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		



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SURFACE PREPARATION

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, expected service life, and the initial substrate conditions. Minimum preparation is mechanical preparation St2/St3. Optimum preparation will provide a surface thoroughly cleaned of all contaminants and roughened to an angular profile between 75-125 µm (3-5 mil). This is normally achieved by initial cleaning and degreasing and then abrasive blasting to a cleanliness of Near White Metal (Sa.21/2), followed by removal of residual abrasive blast residues from the surface to be coated.

MIXING

Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by weight 2-parts Base to 1-part Activator. Mix thoroughly to produce an even colored and streak-free material. THINNING: Never thin.

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
TACK FREE	4 hours	2 hours	1 hour
LIGHT LOAD	12 hours	6 hours	3 hours
OVERCOAT END	16 hours	10 hours	5 hours
FULL LOAD	24 hours	12 hours	6 hours
FULL CHEMICAL	48 hours	24 hours	12 hours

APPLICATION

Brush: medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating (epoxy glued bristles are best). Trim or tape to <1" nap.
Roller: use good quality 1/8" nap.

APPLICATION TEMPERATURE

Keep between 55 to 95°F (17 to 35°C). Substrate: keep between 45 to 105°F (7 to 40°C). the difference in temperature of the substrate and the material should never exceed 10°F, 5°C. Substrate shall be a minimum of 5°F (3°C) above dew point. Do not apply if relative humidity exceeds 90%. If necessary, heat the metal prior to surface preparation using electric heater or heat lamp. Never use gas, oil, or kerosene heaters as they will leave a greasy residue on metal surface. For best results keep all material in warm area overnight (75°F+) for ease of mixing.

CLEAN UP

Tools must be immediately cleaned after usage by using industrial alkaline detergent.

SAFETY

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.

Manufacturer, Dura-Coat Industrial Inc., makes no warranty either expressed or implied including warranties of merchantability or fitness for a particular purpose for this product. Under no circumstances will the manufacturer be liable for incidental, consequential, or other damages, breach of warranty, strict liability, or any other theory arising out of use of this product. The information and or recommendations contained herein are based on standard Product and are proprietary and furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date/version of this document. As the manufacturer has no control over the use conditions or application process of the parties using this product, the manufacturer cannot accept responsibility for loss, injury or other damages resulting from the use of the Product or this or any other information provided by the manufacturer. Therefore, no guarantees of any kind, expressed or implied, are made by the manufacturer, Dura-Coat Industrial Inc., regarding this, or any, product manufactured by them or any contracted or licensed manufacturer. DURA-COAT® epoxy products do not provide structural integrity or improvement. They are only used to provide protection from corrosion, wear, abrasion and chemical attack on a given substrate and only to the extent provided for in the Data Sheets, Technical Data Sheets, Safety Data Sheets, and any other information as supplied in writing directly from manufacturers technical support.