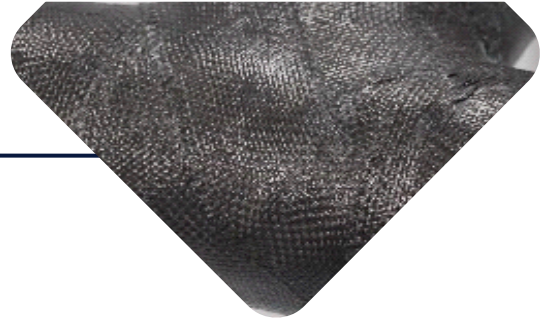




# DURA-COAT REINFORCEMENT RESIN 1150

## DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Reinforcement Resin 1150 is a solvent free, epoxy resin designed particularly for use in composite reinforcement systems in combination with carbon fiber and glass fiber. Excellent in a wide array of environments in temperature up to 320°F (150°C).

- It can be applied with a brush or roller
- Suitable for any substrate, steel, bronze, aluminum, concrete
- Suitable for corrosion protection and structural reinforcement

## PACKAGES

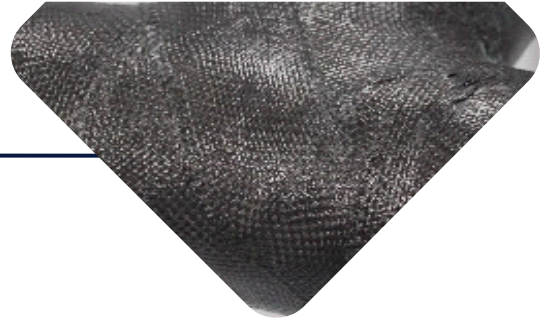
|         | SIZE  | REORDER # |
|---------|-------|-----------|
| OPTIONS | 1 kg  | 1150-01   |
|         | 50 kg | 1150-50   |

## APPLICATION AREAS

- Metallic structures
- Pipelines
- Vessels
- Pipe connections
- Tank walls
- Many others

## TECHNICAL DATA

|                                            |                              |                     |                 |
|--------------------------------------------|------------------------------|---------------------|-----------------|
| Maximum Temperature (dependent on service) | Wet Service                  | 90°C                | 194°F           |
|                                            | Dry Service                  | 150°C               | 320°F           |
| Chemical Resistance                        | Water                        | Excellent           |                 |
|                                            | Alkalis                      | Excellent           |                 |
|                                            | Inorganic Acids              | Good                |                 |
|                                            | Organic Acids                | Good                |                 |
|                                            | Organic Solvents             | Good                |                 |
| Solids by Volume                           |                              | 100%                |                 |
| Mixed Density                              |                              | 1.25                |                 |
| Shore D Durometer Hardness                 | (ASTM D 2240)                | 85                  |                 |
| Pot Life                                   |                              | 25 min / kg at 72°F |                 |
| Mix Ratio                                  | 2.6:1 by weight              |                     | Base: Activator |
| Color                                      | Amber transparent            |                     |                 |
| Shelf Life (unopened containers)           | 3 years at 55-95°F (13-35°C) |                     |                 |



# DURA-COAT REINFORCEMENT RESIN 1150

## SURFACE PREPARATION

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary depending on the severity of the application, the expected service life, and the initial substrate conditions. All sharp edges and welds shall be ground smooth or to a minimum 3 mm (120 mil) radius before abrasive blasting. Optimum surface preparation requires a surface thoroughly cleaned of all contaminants and roughened to an angular profile of 75–125  $\mu\text{m}$  (3–5 mils). This is normally achieved by initial cleaning and degreasing, followed by abrasive blasting to White Metal (SSPC-SP 5) or Near-White Metal (SSPC-SP 10) cleanliness, then removing all residual abrasive and dust from the surface to be coated. Mechanical surface preparation using a bristle blaster is also acceptable.

## 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 2.6 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) |
|----------------------|-------------|-------------|-------------|
| <b>TACK FREE</b>     | 4 hours     | 2 hours     | 1 hour      |
| <b>LIGHT LOAD</b>    | 12 hours    | 6 hours     | 3 hours     |
| <b>OVERCOAT END</b>  | 16 hours    | 10 hours    | 5 hours     |
| <b>FULL LOAD</b>     | 24 hours    | 12 hours    | 6 hours     |
| <b>FULL CHEMICAL</b> | 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.

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