Polytrope® STR Enhanced Polyolefins

Repair Guidelines for Painted Polytrope® STR TPO Parts

Polytrope® STR resins are based on enhanced polyolefin compositions that have been specifically designed to provide high performance for sheet and profile extrusion and thermoforming applications. *Polytrope® STR* resins can be categorized within the thermoplastic polyolefin (TPO) family of polymers. As such, damage to painted parts can be repaired using the same materials and procedures commonly associated with repairing painted TPO. In repairing painted *Polytrope® STR* TPO, it must be kept in mind the repaired section will not have the same high performance properties as the original *Polytrope® STR resin*. As such, the repair procedure provided in this guide should be limited to aesthetic repairs only.

Major paint system suppliers and repair system suppliers, as well as a general repair procedure for TPO parts are provided below.

Paint System Suppliers:

- PPG: (248) 641-2000
- DuPont: (248) 583-8000
- BASF: (248) 304-5700
- Rohm and Haas: (800) 323-3224
- Red Spot: (734) 454-9200
- Sherwin Williams: (248) 588-3500

Repair System Suppliers:

- 3M – Duramix: 1-888-364-3577
  www.3mcarcare.com
- Valvoline – Pliogrip: 1-800-PLIOGRIP
  www.pliogripbyvalvoline.com
- Sherwin Williams - Automix E-Z Sand: 1-800-798-5872
  www.sherwin-automotive.com

General Repair Procedure

1) Using a scuff pad or preparation solvent, clean the front and back surfaces.

2) Roughen the surfaces of the damaged area and smooth the edges of the damaged area to improve repair adhesion of the resin repair materials. Follow the repair system supplier recommendations.

3) Clean the area to prepare the surface for adhesion promoter. It is important that the surface be completely clean to ensure bonding of the adhesion promoter. Apply the supplier recommended adhesion promoter and follow manufacturer instructions.

4) Apply a reinforcing/backing material to the damaged area to support the epoxy/repair material to be applied to the repair area.

5) Apply the epoxy/repair material to the back portion of damaged area, covering the reinforcing patch and just beyond the damaged area.

6) Apply additional epoxy/repair material to the front of the damaged part, extending just beyond the damaged area. Smooth both sides with a putty or plaster knife.

7) Allow the epoxy/repair material to dry per the manufacturers recommendations.

8) Sand the repaired area to the desired shape and smoothness. Using a sander at a low RPM speed is suggested. Repeat applications of the epoxy/repair material as many times as necessary to achieve the desired part surface quality.

9) Application of a finishing layer can improve the surface of the repair and provide an improved painting and finishing surface. Follow manufacturer guidelines in application of the finishing layer.

10) Paint the repair area per your paint system supplier painting recommendations.