# Aluminum Repair Procedures

### Paint Prep





#### Feather-Prime-Block Waterborne Featheredge Blow off repair area. Featheredge the surrounding repair area using P180 abrasive. **Final Sand and Inspect** Final sand surrounding area using P320 abrasive 2 disc on a DA sander. Blow off, with clean, dry air. Clean with wax and grease remover. Inspect the repair for quality. Mask for Primer Mask repair area as necessary. Refer to Primer Masking SOP for 3M specific recommendations. Apply Primer Apply primer to repair area following manufacturers recommendations. Allow to cure. Apply Dry Guide Coat Apply 3M<sup>™</sup> Dry Guide Coat over cured primer. Hand Block Repair Hand sand or "check block" sand the repair area using a P320 abrasive sheet on an appropriately 6 sized hand block. Look for imperfections in the repair area highlighted by the dry guide coat. If necessary, re-apply dry guide coat and continue block sanding to repair any defects as required. **Re-Apply Dry Guide Coat** Re-apply 3M<sup>™</sup> Dry Guide Coat over entire repair area. **DA Sand Primer** DA sand repair area using a P400 disc and a soft interface pad until all 3M<sup>™</sup> Dry Guide Coat is removed. Note: Use 3M<sup>™</sup> Flexible Abrasive Disc to reduce burning through the primer surface. **Re-Apply Dry Guide Coat** Re-apply 3M<sup>™</sup> Dry Guide Coat over hand blocked repair area. **DA Sand Primer** DA Sand repair area using a P600-P800 disc and a soft interface pad until all the 3M<sup>™</sup> Dry Guide Coat is removed. Note: Use 3M<sup>™</sup> Flexible Abrasive Disc to reduce burning through the primer surface. **Clean the Damaged Area** Clean the repair area with a VOC compliant surface cleaner.

#### **Product List**

3M<sup>™</sup> Cubitron<sup>™</sup> II Clean Sanding Hookit<sup>™</sup> Disc, 6 in., 180+ grade, PN 31374



3M<sup>™</sup> Dry Guide Coat, 50 gram applicator kit, PN 05861



3M<sup>™</sup> Accuspray<sup>™</sup> Spray Gun Model HG18, PN 16570; 1.8mm Atomizing Head, PN 16611



3M<sup>™</sup> Hookit<sup>™</sup> Purple Clean Sanding Roll, 70mm x 12m, P320, PN 30705



Festool D150 Thin Interface Pad, PN 29939



3M<sup>™</sup> Purple Clean Sanding Hookit<sup>™</sup> Disc 334U, 6 in., P320 grit, PN 01812; 6 in., P400 grit, PN 01811; 6 in., P600 grit, PN 30761; 6 in., P800 grit, PN 30760



3M<sup>™</sup> Flexible Abrasive Hookit<sup>™</sup> Disc, 17 hole, 6 in., P400, PN 34800; 6 in., P600, PN 34801; 6 in., P800, PN 34802



#### **Think About Your Health**

3M<sup>™</sup> E-A-R<sup>™</sup> Skull Screws<sup>™</sup> Ear Plug, PN P1300





3M<sup>™</sup> Lexa<sup>™</sup> Protective Eyewear, PN 15200

# Science. Applied to Life.™

# **Standard Operating Procedures Paint Prep**

**Blend Panel Sanding Process** 



# Science. Applied to Life.™

## Standard Operating Procedures Truck Repair

#### Properly dress and finish welded areas prior to applying direct to metal seam sealer.

#### **Product List** Seam Sealer Installation: Direct to Metal Scotch-Brite<sup>™</sup> Hand Pads 7447 PRO, Very Fine grade, 6 in. x 9 in., PN 64926 Surface Prep Scuff sealer application areas using a maroon Scotch-Brite<sup>™</sup> Hand Pad. Blow off with clean, dry air. 3M<sup>™</sup> All Purpose Cleaner and Degreaser Concentrate, 1 gallon, PN 38350 Clean Marson® Yellow Spreaders, PN 20395 Use a clean cloth or paper towel to clean 2 repair area with all purpose cleaner and degreaser followed by a VOC compliant wax and grease remover. Note: DO NOT spray or saturate seams with cleaner. 3M<sup>™</sup> Urethane Seam Sealer, PN 08361; PN 08362 3M<sup>™</sup> MSP Seam Sealer, PN 08370 **Apply Tight Coat** Apply thin bead of sealer to desired joint. Tool sealer into seam ensuring proper sealing and adhesive qualities. 3M<sup>™</sup> Bare-Metal Seam Sealer 200mL, PN 08310; 600mL DMS, PN 58310 **Think About Your Health Apply Seam Sealer** 3M<sup>™</sup> E-A-R<sup>™</sup> Skull Screws<sup>™</sup> Ear Plug, PN P1300 Apply seam sealer over the prepared seam. Tool to recreate 3M<sup>™</sup> Half Facepiece OEM appearance. Respirator, PN 07182 3M<sup>™</sup> Virtua<sup>™</sup> CCS Protective Eyewear with Foam Gasket, PN 11872 Not a complete list. Select protective eyewear, appropriate gloves, hearing protection, respirator and protective clothing based on your job and exposure assessment.

# Aluminum Repair Procedures

#### Paint Prep



