

PLASTIC REPAIR AND REFINISHING PROCEDURES

As more fenders, bumper covers, dashboards and interior trim panels need to be repaired and refinished, technicians have made **SEM** "The Right Choice" for their plastic repair and refinishing needs.

In the past, technicians could not start the repair until they identified the plastic from which the damaged part was made. **SEM** eliminates this step by identifying three basic plastic categories: flexible, rigid and extra rigid, and then prescribes specific procedures and necessary products for repairing each type of plastic.

FLEXIBLE PLASTICS

PUR Polyurethane **TPUR** Thermoplastic Polyurethane **RIM** Reaction Injection Molded Urethane And similar plastics

EXTRA RIGID PLASTICS

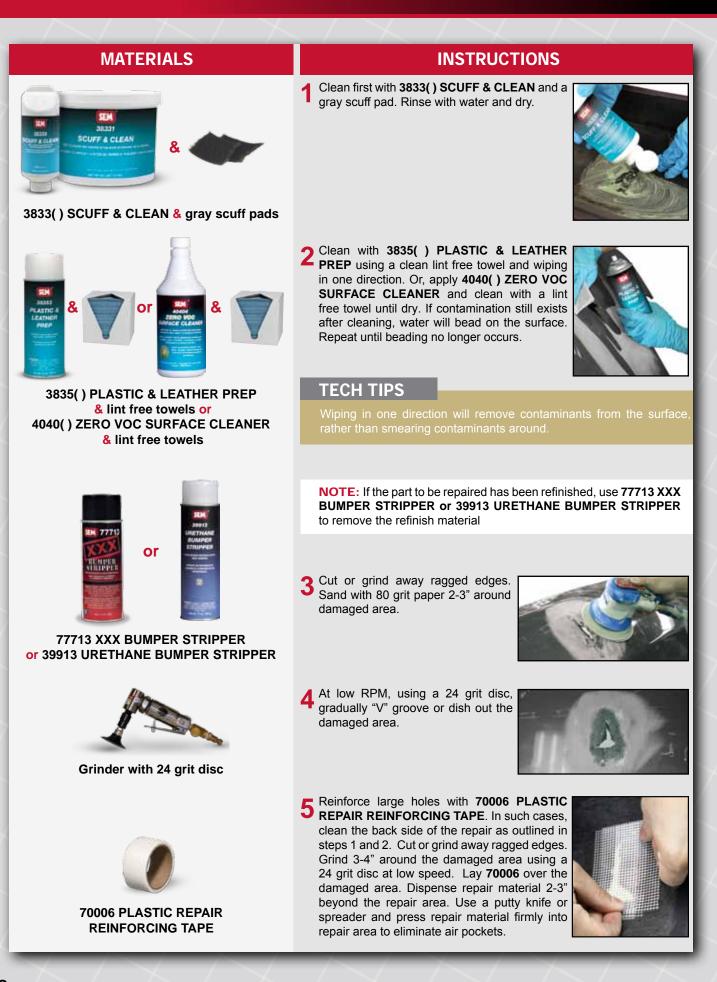
SMC Sheet Molded Compound FRP Fiberglass Reinforced Polyester PC/ABS HPA Honda Polymer Alloy PPO/PA Rigid Polymer Alloy GTX Alloy blend of nylon And similar plastics

RIGID PLASTICS

ABS Acrylontrile Butadiene Styrene E/P-TPO Ethylene/Propylene Thermoplastic PC Polycarbonate PP Polypropylene TPO Thermoplastic Olefi TPE Thermoplastic Elastomer UP Polyester Thermoset EPDM Ethylene Propylene Diene Monomer And similar plastics



REPAIRING FLEXIBLE AND RIGID PLASTIC



INSTRUCTIONS

6 Fill the front side of the repair area with repair material. Use a putty knife or spreader and press firmly into repair area to eliminate air pockets. Overfill repair material higher than surrounding area to allow for sanding.



FEATURES OF SEM REPAIR MATERIALS

- State of the art epoxy technology adheres to substrates other repair materials cannot.
- · Superior adhesion for a strong and long lasting repair.
- Does not shrink or pinhole which speeds up the repair process.
- Excellent sanding and feather edge qualities for flawless repairs
- · Saves money and time no adhesion promoter necessary.

7 Allow repair material to cure for 15-20 minutes before sanding with 80 grit paper. Finish sanding with 180 grit paper.

8 For slight imperfections, reapply a skim coat of repair material, **40482 BUMPER BITE**. Re-sand with 180 grit sandpaper and clean with **3835() PLASTIC & LEATHER PREP**.



9 Apply refinishing system of choice. See pages 6-7 for details.

MATERIALS

For ABS, TPO, PP, PPO, EPDM, TEO

or TPE use:

39767 PROBLEM PLASTIC REPAIR MATERIAL or 68422 MINI-MAX BUMPER REPAIR MATERIAL

For PUR, RIM or TPUR use:



39847 MULTI-PLASTIC REPAIR MATERIAL





TECH TIPS

If the type of plastic being repaired is unknown, grind the plastic with a 24 grit disc at high speed. If the plastic begins to smear and melt, use **39767 PROBLEM PLASTIC REPAIR MATERIAL** or **68422 MINI-MAX BUMPER REPAIR MATERIAL** to complete your repair. If the plastic is flexible and powders when you grind it, use **39767 or 39847** to complete the repair.

REPAIRING EXTRA RIGID PLASTIC



INSTRUCTIONS

5 Clean out all excess adhesive from the area to be filled. This is most easily done just after set time with a scraper or razor blade. Otherwise, carefully grind out with a 36-40 grit disc. If this material is not removed, it could cause swelling commonly known as a "bull's eye" or "halo".

6 Mix a 1" ribbon of cream hardener with a golf ball sized amount of 39542 CARBO FILL. Do not over catalyze or mix more than can be used in 3-5 minutes. Mix thoroughly to a uniform color.

FEATURES OF 39542 CARBO FILL

area to allow for sanding.

typically viewed as a "bull's eye" or "halo" by providing the same expansion and contraction characteristics as the original substrate. 39542 is carbon fiber en-

8 Allow repair material to cure for 10-15 minutes before sanding with 80 grit paper. Finish sanding with 180 grit paper. sanding with 180 grit paper.

Fill repair area with chosen repair material. Use a putty knife or spreader and press firmly into repair area to eliminate air pockets. Apply repair material higher than surrounding

9 For slight imperfections, reapply a skim coat of repair material and finish sanding with 180 grit sandpape .



Grinder with 36-40 grit disc











REFINISHING



INSTRUCTIONS

MATERIALS

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5 After priming and sanding, apply the paint system of choice.

When additional flexibility is required, **SEM** offers **39728 SUPER SEM FLEX**. **39728** is universal and is compatible with most major paint companies' materials.

TER AEROSOLS are available in many 3910() FLE

SEM BUMPER COATER AEROSOLS are available in many OEM colors to match most contrasting domestic and foreign bumpers.

3910() FLEXIBLE BUMPER COATER or 3910()-LV LOW VOC FLEXIBLE BUMPER COATER

TECH TIPS

If the plastic part is too damaged to repair, aftermarket parts or OEM replacements may be used. Many of these parts are made from TPO, PP, EPDM and similar thermoplastics. **7772()XXX ADHESION PROMOTER** and **3986() PLASTIC ADHESION PROMOTER** promote adhesion of topcoat materials to these problem plastics ensuring a quality repair.



DUPLICATING A TEXTURED FINISH

SINGS SINGS FEXTURE CONTING **3985() TEXTURE COATING** allows you to duplicate the original finish on plastic bumpers, instrument panels, dashes, consoles and other textured and vinyl parts. Textures ranging from a very fine, almost undetectable pattern to a heavy or wavy effect can be achieved simply by altering the distance to the surface, the speed of application, or when applied with a spray gun, the fluid tip size.

When applying **TEXTURE COATING** with either a spray gun or aerosol, it is important not to pull or release the trigger or valve over the surface being textured. This can result in an inconsistent texture. Allow sufficient flash times between coats to avoid losing texture. Once **TEXTURE COATING** is dry to touch, lightly sand area with a gray scuff pad or 400 grit sandpaper to achieve uniform texture.

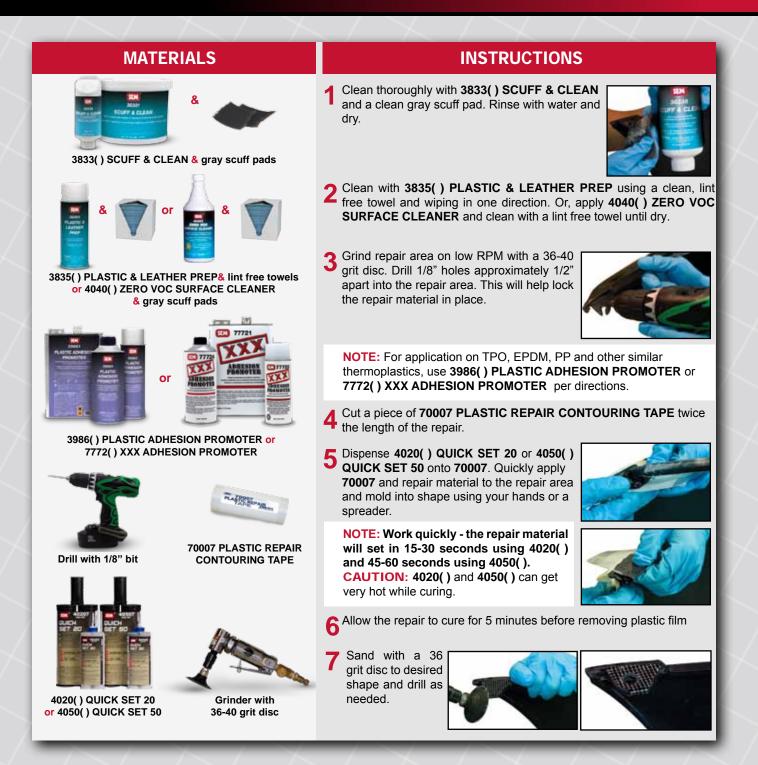
TEXTURE COATING must be topcoated. **3985(**) is compatible under most topcoats, but best results are achieved when used with **SEM COLOR COAT** or **BUMPER COATERS**.

SEM SCHOOL

SEMSchool

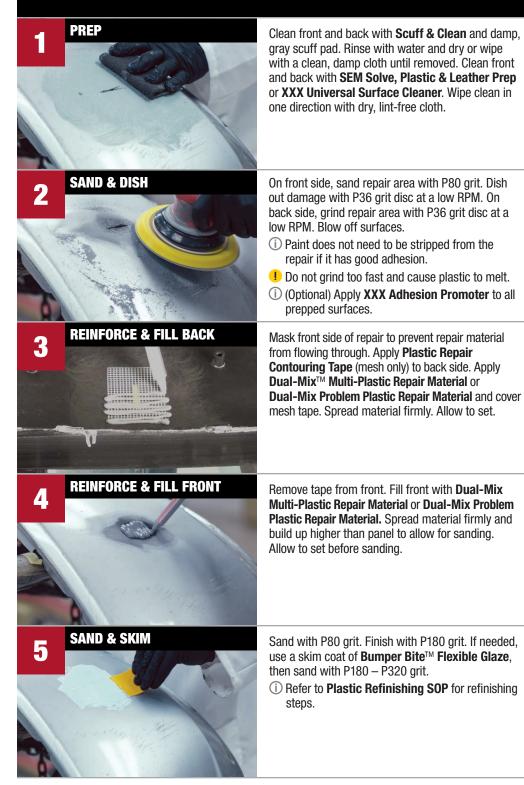
The better trained you are, the more profit your shop turns. That's why we offer comprehensive training programs to our customers. **SEM School**, a nationally known training program, is available at no charge to professionals who use and sell SEM products.

BUMPER TAB REPAIR



PLASTIC REPAIR STANDARD OPERATING PROCEDURE

SEM



PRODUCT LIST



| PREP | | | |
|-------|-------------------------------|----------------|--|
| Part | Product | Size | |
| 38391 | Scuff & Clean | Gallon Pump | |
| 38398 | Scuff & Clean | 16 oz. Tube | |
| 38371 | SEM Solve | Gallon | |
| 38373 | SEM Solve | 20 oz. Aerosol | |
| 38374 | SEM Solve | Square Quart | |
| 38351 | Plastic & Leather Prep | Gallon | |
| 38353 | Plastic & Leather Prep | 16 oz. Aerosol | |
| 38354 | Plastic & Leather Prep | Cone Quart | |
| 77721 | XXX Adhesion Promotor | Gallon | |
| 77723 | XXX Adhesion Promotor | 16 oz. Aerosol | |
| 77724 | XXX Adhesion Promotor | Cone Top Quart | |
| 77771 | XXX Universal Surface Cleaner | Gallon | |
| 77774 | XXX Universal Surface Cleaner | Quart | |
| | | | |



REINFORCE & FILL

| Part | Product | Size |
|-------|---|-----------------|
| 70007 | Plastic Repair Contouring Tape | 15' Roll |
| 39767 | Dual-Mix Problem Plastic Repair Material | 7 oz. Cartridge |
| 39847 | Dual-Mix Multi-Plastic Repair Material | 7 oz. Cartridge |



SAND AND SKIM

| Part | Product | Size |
|-------|----------------------------|-------------|
| 40482 | Bumper Bite Flexible Glaze | 16 oz. Tube |