EZ Sand Rigid Parts Repair
05885

Technical Data

July 2017

Detailed Product Description
3M™ EZ Sand Rigid Parts Repair is a two-part epoxy used to repair Sheet Molded Compound (SMC), Fiberglass Reinforced Polyester (FRP), and other rigid composite plastic parts.

Features
- Rigid two-part epoxy
- 200 ml dual-syringe cartridge system
- Metered static mixing

Typical Physical Properties
Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

<table>
<thead>
<tr>
<th>Container</th>
<th>200 mL dual-syringe cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>Epoxy</td>
</tr>
<tr>
<td>Density lbs/Gallon (Approx.)</td>
<td>8.3 / 8.3</td>
</tr>
<tr>
<td>Color</td>
<td>Blue / White</td>
</tr>
<tr>
<td>Solids Content (Approx.)</td>
<td>100%</td>
</tr>
<tr>
<td>Consistency</td>
<td>Paste</td>
</tr>
<tr>
<td>Service Temperature - °F</td>
<td>-20° to 180°F</td>
</tr>
</tbody>
</table>

Product Uses
For repairing rigid composite materials, such as fiberglass, SMC and carbon fiber.

If reinforcing a puncture, tear, or hole, use this product on the front and back side, along with reinforcing fiberglass cloth or mat on the back side.

Use with the following applicators: PN 08571 (manual), PN 08117 (manual), and PN 09930 (pneumatic).
3M™ Static Mixing Nozzle: PN 08193 (6/bag), PN 08194 (50/box).

For professional use only. Not intended for retail sale.
**Typical Performance Properties**

The following times have been determined with ambient air temperature and substrate temperature @ 70°F and are considered typical values.

**WORK TIME:**
10 minutes

**MIX NOZZLE DWELL TIME:**
8 minutes

**SAND TIME:**
30 minutes

**CURE TIME:**
4 hours

**PAINT TIME:**
30 minutes

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Cure time may be reduced by the addition of heat. Maximum heat 140°F for 15 minutes, allow material to cool at room temperature prior to next process step.

<table>
<thead>
<tr>
<th>Lap Shear, SMC</th>
<th>966 psi</th>
<th>ASTM D1002 / 2&quot; per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lap Shear, FRP</td>
<td>1040 psi</td>
<td>ASTM D1002 / 2&quot; per minute</td>
</tr>
</tbody>
</table>

Overlap shear test method: Over lap shear test for adhesion determined in accordance with ASTM D1002. Sample dimensions 1" x 4" x .0111" with an overlap area of 1/2" x 1".
Directions for Use

SURFACE PREPARATION:
1. Wash surface with soap and water to remove water soluble contaminants. Follow the soap and water wash with an appropriate VOC compliant product for removal of surface contaminants.
2. Sand the surface with a grade P80 abrasive.
3. Remove dust from surface using clean, un-oiled compressed air and a clean, dry rag.

Note: If using to repair Metton® plastic, be sure to use 3M™ Polyolefin Adhesion Promoter (PN 05907) before applying adhesive, to insure a good bond.

PRODUCT PREPARATION:
1. Insert cartridge into applicator gun.
2. Remove retaining collar and plug from end of cartridge. Discard plug, save retaining collar.
3. Extrude a small amount of product until both parts A and B dispense equally. NOTE: If you choose not to use a mixing nozzle, extrude the amount of filler required, and mix by hand to a uniform color.
4. Attach 3M™ Mixing Nozzle (PN 08193) to cartridge and lock in place with retaining collar.
5. Dispense a small amount of material and discard. After use, leave mix nozzle in place to seal the cartridge.

GENERAL REPAIR PROCESS:
1. Apply a thin coat of mixed material to the repair area using a clean plastic spreader, making certain to completely “WET OUT” the surface; immediately add additional mixed material, building up the repair higher than the surrounding, undamaged area.
2. Allow material to cure 30 minutes.
3. Sand with a grade 180 abrasive followed by grade 240 and/or 320.
4. Remove dust from surface using clean, un-oiled compressed air and a clean, dry rag. NOTE: DO NOT SOLVENT WIPE.

APPLICATION WARNINGS:
Once the initial cleaning steps are completed, do not solvent wipe the repair area again.

Applications
3M™ EZ Sand Rigid Parts Repair may be used as a cosmetic repair material as well as a reinforcing bonder on composite plastic substrates.
Storage and Handling

<table>
<thead>
<tr>
<th>STORAGE</th>
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</thead>
<tbody>
<tr>
<td>When stored at the recommended conditions in original, unopened containers, this product has a shelf life of at least 24 months from the date of manufacture. Store in a dry place at room temperature conditions for optimal shelf life.</td>
</tr>
</tbody>
</table>

**After use, leave mix nozzle in place to seal the cartridge.**

<table>
<thead>
<tr>
<th>HANDLING</th>
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</thead>
<tbody>
<tr>
<td>Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep out of the reach of children. Avoid eye contact with dust or airborne particles.</td>
</tr>
</tbody>
</table>

Precautionary Information

| Before using this product, please reference Product Label and/or Safety Data Sheet for Health and Safety Information. Note: Laws controlling the acceptable amounts of Volatile Organic Compounds (VOC's) vary by state, and in some cases by locality. For surface preparation and clean-up activities, consult federal, state and local regulations regarding use of products containing VOCs in your area. |

Technical Information

| The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed. |

Product Use

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