



Document Library
Technical Data Sheet 05833 One
Quart Can; 05834 One Gallon Can

Public

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3M™ Fiberglass Resin

Data Sheet

3M Part No.(s) **3M Part Descriptor(s)**
 05833 One Quart Can 3M™ Fiberglass Resin
 05834 One Gallon Can

3M Fax on Demand Identification Number : 05834

Description

Liquid polyester resin to be used with 3M™ Liquid Hardener (PN 05836). This combination is designed to be used with 3M™ Fiberglass Cloth (PN 05838) or 3M™ Fiberglass Mat (PN 05837) to patch holes, tears, cracks, or punctures in metal, and fiberglass panels.

Features, Advantages, Benefits

Features	Thick formulation Fast acting hardener Excellent "wet out" properties
Advantages	Resists runs or sags More productive Increased adhesion and strength
Benefits	Better handling properties Less time to wait for sanding Higher quality repair

Typical Physical Properties

Container	One quart metal can one gallon metal can	22cc tube
Base	Unsaturated Polyester Resin, Styrene Monomer	Dimethyl Thalate, Methyl Ethyl Ketone
Density lbs/Gallon (Appx.)	9.35+-0.25	N/A
Color	Purple/Amber/Brown	Clear
Flash Point - °F	89 deg. F (closed cup method)	>200F (closed cup method)
Viscosity (CPS) Brookfield	3000-6500 cps @2.5 rpm	N/A
Viscometer	1400-2200 cps @20 rpm	

Service Temperature - °F Min.-20deg.F Max.180deg.F N/A

Product Uses

Liquid polyester resin to be used with 3M™ Liquid Hardener (PN 05836). This combination is designed to be used with 3M™ Fiberglass Cloth (PN 05838) or 3M™ Fiberglass Mat (PN 05837) to patch holes, tears, cracks, or punctures in metal, and fiberglass panels.

Performance Properties

Work time:	8 minutes with 1.10% hardener @ 77 F
Sand time:	60 minutes 1.10% hardener @77 F
Lap Shear Steel to steel:	ASTM D3163-84 2100 PSI +-100 PSI
Lap Shear Aluminium to Aluminium:	ASTM D3163 600 PSI +-100 PSI
Water Absorption:	ASTM D-570 0.30% +- 0.05
Tensile Strength:	ASTM D638-82 5800+-100PSI
Recommended Hardener/Resin ratio:	.75% to 2% by weight
Shelf Life:	One year from date of manufacture @ 65 -80 deg. F

Handling and Application Information

Directions for Use

1. Sand or Grind properly cleaned surface with grade 36 - 80 grit abrasive, blow off dust with clean dry compressed air.
2. Cut 3M™ Fiberglass Cloth (PN05838) or 3M™ Fiberglass Mat (PN05837) allowing 1.5" overlap around damaged area (if additional strength is needed two layers are suggested).
3. Mix applicable amount of 3M™ Fiberglass Resin (PN05833 or 05834) with 1-2% 3M™ Liquid Hardener (PN05836) stir in well with a clean paint stick.
4. Using a clean paint brush or roller paint a coat of 3M™ Fiberglass Resin (PN05833 or 05834) on the prepared surface.
5. On a clean dry non-porous surface saturate prepared 3M™ Fiberglass Cloth (PN05838) or 3M™ Fiberglass Mat (PN05837) with 3M™ Fiberglass Resin (PN05833 or 05834) on both sides.
6. Place saturated 3M™ Fiberglass Cloth (PN05838) or 3M™ Fiberglass Mat (PN05837) over damage and apply additional coats of 3M™ Fiberglass Resin (PN05833 or 05834) to completely coat into prepared area.
7. Allow to cure to a hard state (dependent upon temperature and amount of hardener) and grind or sand with 36-40 grit abrasive. Blow off with clean dry compressed air.
8. If desired apply 3M™ Body filler to complete cosmetic surface repair.

Applications

Liquid polyester resin to be used with 3M™ Liquid Hardener (PN 05836). This combination is designed to be used with 3M™ Fiberglass Cloth (PN 05838) or 3M™ Fiberglass Mat (PN 05837) to patch holes, tears, cracks, or punctures in metal, and fiberglass panels.

Storage and Handling

HANDLING

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. Keep container closed when not in use. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Avoid eye contact with dust or airborne particles.

STORAGE

Store in a dry area at 72 deg F for optimal shelf life.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product. 05834

Country

US

This document is public. It may be distributed.

Warranty and Limited Remedy

This product will be free from defects in material and workmanship at the time of shipment. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If this product is defective, your exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to replace the product or refund the purchase price.

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For Additional Health and Safety Information

3M Automotive Aftermarket Division

3M Center, Building 223-6N-01

Saint Paul, MN 55144-1000

1-877-666-2277 (1-877-MMM-CARS)

Material Safety Data Sheets and Technical Data Sheets are also available by calling Fax on Demand 1-800-305-0419.

Help Line 1-800-621-5455 (US) 1-650-596-4407 (International).

3M Fax on Demand/MSDS Identification Number 05834

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