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3M™ Long Strand Fiberglass Reinforced Filler

Data Sheet

3M Part No.(s)	3M Part Descriptor(s)
05814	3M™ Long Strand Fiberglass Reinforced Filler

3M Fax on Demand Identification Number : 05814

Description
Two component resin rich filler formula, containing long fiberglass strands.

Features, Advantages, Benefits

Features	Fiberglass strands Resin gel formula Water resistant
Advantages	High strength Sag resistant Weathering durability
Benefits	SMC/Fiberglass crack repair Excellent fill, high build Very durable

Typical Physical Properties

Container	Metal can	Plastic tube
Base	Polyester resin, Styrene Monomer	Benzoyl Peroxide
Density lbs/Gallon (Appx.)	10.8 Lbs/Gallon	10 Lbs/Gallon
Color	Green	Red
Flash Point - °F	89 deg F ASTM D93 closed cup method	N/A
Viscosity (CPS) Brookfield Viscometer	N/A	N/A
Consistency	Homogenized fiberous paste	Viscous Paste
Service Temperature - °F	-20F Min. 175F Max.	
Propellant	N/A	N/A

Product Uses
Designed to be used as a reinforcement material during the repair of holes, cracks, or tears in Metal, SMC, and Fiberglass panels. 3M™ Long Strand Fiberglass Reinforced Filler offers excellent sag resistance and high build and gap spanning characteristics.

Performance Properties

Sanding Time:	20 minutes @ 77F
Lap Shear Aluminium to Aluminium:	ASTM D3163 1400 + - 100PSI
Lap Shear Steel to Steel:	ASTM D3163-84 2000 + - 100PSI
Tensile Strength:	ASTM D638-82 3450 + - 100PSI
Shrinkage:	Less than 0.35%
Shore D Hardness:	10 min: 40 +-5, 20 min: 50 +-5, 30 min: 60 +-5, 60 min: 65 +-5, 24 hour: 70 +-5
Minimum hardener:	1.5%
Maximum hardener:	2.75%

Handling and Application Information

Directions for Use

1. Grind clean surfaces with a grade 36 3M™ abrasive (such as Roloc).
2. Apply the required amount of 3M™ Long Strand Fiberglass Reinforced Filler to a clean mixing surface. Do not use discarded cardboard. Apply a 1.5 inch long strip of creme hardener to golf ball-sized amount of filler.
3. Mix filler and creme hardener thoroughly, to a uniform color.
4. Apply mixed filler to surface, being sure to "wet out" the surface completely. Apply additional filler in layers, building up the damaged area higher than the surrounding surface. Allow curing time of 20 minutes.
5. Sand or grind to contour with grade 36 - 80 3M™ abrasives.
6. Apply a body filler such as 3M™ Zebra™ Advanced Lightweight Filler to achieve final shape and feathered edge.

Applications

Designed to be used as a reinforcement material during the repair of holes, cracks, or tears in Metal, SMC, and Fiberglass panels. 3M™ Long Strand Fiberglass Reinforced Filler offers excellent sag resistance and high build and gap spanning characteristics.

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 65-80 deg F for optimal shelf life. Shelf life: one year from date of manufacture.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product.
05814

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.

LIMITATION OF LIABILITY: 3M and seller will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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).

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