



Short Strand Reinforced Filler

01120 • 01160

Technical Data Sheet

July, 2014

3M Part No.(s)	3M Part Descriptor(s)
01120	3M™ Short Strand Reinforced Filler - One quart can - 25.6 fl oz
01160	3M™ Short Strand Reinforced Filler - One gallon can - 102 fl oz

Product Description 3M™ Short Strand Reinforced Filler can be used in conjunction with fiberglass tape, cloth or mat to repair and rebuild rusted out metal and damaged fiberglass materials. 3M™ Short Strand Reinforced Filler can be used to fill gaps across up to a 1/2" wide. 3M™ Short Strand Reinforced Filler is reinforced with short-strand fiberglass to create a waterproof repair.

- Features**
- Reinforced with short strands fiberglass
 - Sag resistant formula
 - High filling rate
 - Waterproof

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.

	Part A - Filler	Part B - Creme Hardener
Container	PN 01120 - One quart, metal can PN 01160 - One gallon, metal can	2.75 oz. plastic tube
Base	Polyester resin with styrene monomer	Benzoyl Peroxide
Density	13 lb/gal	10 lb/gal
Color	Green	Blue
Viscosity @ 77°F (25°C) - Brookfield Viscometer	Fibrous Materials	70,000 - 150,000 cps

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

Typical Performance Properties **The following times have been determined with ambient air temperature and substrate temperature @ 77°F (25°C) and are considered typical values.**

SHAPE SAND TIME:

8 to 12 minutes when mixed with 2% hardener by weight @ 77°F (25°C)

FINISH SAND TIME:

20 minutes when mixed with 2% hardener by weight @ 77°F (25°C)

RECOMMENDED APPLICATION TEMPERATURE:

Above 45°F (7°C)

SERVICE TEMPERATURE:

Min. -20°F (-29°C) Max. 180°F (82°C)

MINIMUM HARDENER:

1.5%

MAXIMUM HARDENER:

2.75%

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

Lap Shear, Steel to Steel:	1,800 psi	ASTM D1002
Lap Shear, Aluminum to Aluminum:	1,290 psi	ASTM D1002
Tensile Strength:	1,970 psi	ASTM D638
Shore D hardness @ 24 hrs:	83	ASTM D2240
Flexural Strength:	2,740 psi	ASTM D790 Procedure A
Shrinkage:	0.15%	LTM 855.0084

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Directions for Use

Clean the repair area using soap and water followed by a wax & grease remover/surface cleaner. Sand the surface as needed with grade P40 to P80 3M™ abrasive.

Note: If grinding is required use a grade 50 3M™ grinding disc, blow off the sanding dust with clean dry air. Blow off with clean dry compressed air and re-clean the surface using a clean paper or cloth towel and a wax & grease remover/surface cleaner.

1. Apply the required amount of reinforced filler to a clean mixing surface. (Do not use discarded cardboard as a mixing surface as contamination may occur.) The correct hardener to filler ratio = 3 inch diameter circle 1/2 inch thick of filler to a 3 inch strip of cream hardener.
2. Mix the body filler and cream hardener thoroughly, to a uniform color. Gel time/setting time is approximately 3-5 minutes @ 75°F (24°C) using 2% hardener as prescribed. Spread the filler on the mixing board, being sure to break any air bubbles that were introduced during mixing.
3. Apply a thin layer using firm pressure to ensure maximum adhesion being sure to “wet out” the surface completely. Apply additional filler in layers, building up the damaged area higher than the surrounding surface. Maximum filler thickness should not exceed 1/4 inch. Allow curing time of 20 minutes.
4. Sand the filler to the proper contour with 3M™ abrasives, using the following recommended grade sequence: P40, P80, P180. **Note:** If more filler is needed blow off with clean dry compressed air and follow steps 2 through 5.
5. Wait approximately 45 minutes before applying primer and paint, always follow your paint company’s recommended procedures.

Applications

Designed to be used as a reinforcement material where a stronger filler is needed when repairing or filling larger gaps in auto body, marine, industrial and architectural surfaces. This product is not designed as a finishing material (due to fiber strands), repairs should be finished using 3M™ body filler such as 01131 Platinum Plus.

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

When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 16 months from the date of manufacture. Store in a dry area at 65-80°F (18-27°C) for optimal shelf life.

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Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product. See link below:
http://solutions.3m.com/wps/portal/3M/en_US/MSDS/Search/?gsaAction=msdsSRA&msdsLocate=en_US

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

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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For Additional Health and Safety Information



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