



Platinum[®] Plus Gold Light Weight Body Filler for DMS

05863

Technical Data Sheet

February, 2011

| 3M Part No.(s) | 3M Part Descriptor(s) |
|----------------|--|
| 05863 | 3M [™] Platinum [®] Plus Gold Light Weight Body Filler for DMS |

Product Description 3M[™] Platinum[®] Plus Gold Light Weight Body Filler is a premium gold colored body filler, packaged in a 300ml Dual Cartridge System. 3M[™] Platinum[®] Plus Gold Light Weight Body Filler offers excellent surface adhesion to properly prepared steel, galvanized steel, aluminum, E-coat, sheet molded compound (SMC) and fiberglass reinforced polyester (FRP), concrete and wood substrates. 3M[™] Platinum[®] Plus Gold Light Weight Body Filler is formulated with Stain-free/Tack-free resin for use under Basecoat/Clearcoat and Waterborne paint systems. 3M[™] Platinum[®] Plus Gold Light Weight Body Filler for DMS is designed to be used with the 3M[™] Dynamic Mixing applicator (PN 05846).

- Features**
- 300ml Dual Cartridge System
 - 50:1 mix ratio
 - Adhesion Promoted formulation
 - Tack-Free / Stain-Free resin
 - Automatic hand held dispensing system

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 | Two Part Cartridge - (300ml) | Two Part Cartridge - (6ml) |
| Base | Polyester Resin with Styrene Monomer | Benzoyl Peroxide |
| Density lbs/Gallon (Appx.) | 8.05 lbs/gallon | 10 lbs/gallon |
| Color | Gold | Blue |
| Flash Point | 88°F (31°C) | N/A |
| Viscosity @ 77°F (25°C) - Brookfield Viscometer | 120,000 - 204,000 cps | 70,000 - 150,000 cps |
| Service Temperature | Min. -20°F (-29°C) Max. 180°F (82°C) | N/A |
| Application Temperature | Min. 60°F (15°C) Max. 110°F (43°C) | N/A |

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Product Uses Two component filler used to repair dents, dings, gouges and other cosmetic imperfections on bare steel, galvanized steel, aluminum, sheet molded compound (SMC) and fiberglass reinforced polyester (FRP). May also be used on many industrial and architectural surfaces needing minor repairs.

**Use with the following applicator: PN 05846 (pneumatic).
3M™ Mix Nozzle PN 05847 (50/box).**

Typical Performance Properties The following times have been determined with ambient air temperature and substrate temperature @ 72°F (22°C) and are considered typical values.

WORK TIME:

3 to 4 Minutes

SHAPE SAND TIME:

8 to 10 Minutes

FINISH SAND TIME:

17 to 20 Minutes

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: | 2,320 psi | ASTM D1002 |
| Lap Shear, Aluminum to Aluminum: | 1,290 psi | ASTM D1002 |
| Tensile Strength: | 1,570 psi | ASTM D638 |
| Shore D Hardness @ 24 hrs: | 64 | ASTM D2240 |
| Flexural Strength: | 2,440 psi | ASTM D790 Procedure A |
| Shrinkage: | 0.15% | LTM 855.0084 |

Directions for Use **SURFACE PREPARATION:**
Use appropriate 3M VOC compliant product(s) for adhesive removal, degreasing, cleaning or removal of surface contaminants. Reference the 3M Automotive Aftermarket Catalog for a suitable VOC compliant product. Sand the damaged area and immediate surrounding area with grade 40 or grade 80 grit DA abrasive to remove damaged coatings. Grind low areas with grade 50 Roloc™ disc and blow off with clean, dry compressed air. Apply 3M™ Dent Repair Compound following general repair procedures below. For best results see 3M™ Dent Repair System for details at 3M.com/automotive.

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Directions for Use (continued)

PRODUCT PREPARATION:

INSTALLING THE CARTRIDGE

- Position large diameter cylinder in the up (12 o'clock) position.
- Place the mounting flange end of the cartridge against the mounting plate of the dispenser, making sure to align and insert the cartridge drive rod with the dispenser drive socket, located in the center of the dispenser mounting plate.
- Press the cartridge back against the mounting plate (this should occur without resistance if drive rod is aligned properly) and twist until the cartridge locks into place.

INSTALLING THE NOZZLE

- Remove sealing cap from cartridge.
- Align the 3M™ Dynamic Mixing Nozzle with the cartridge outlets, making sure to position the large outlet (cartridge) with the large inlet (nozzle) and the small outlet (cartridge) with the small inlet (nozzle).
- Press in until locking retainer engages mixing nozzle.

EQUALIZING THE CARTRIDGE

- Attach an air line to the dispenser inlet.
- Using proper air pressure settings (see Cautions and Safety Items above) and a disposable collection point, depress the trigger until both sides of the dual-component material are present and the product has achieved a consistent green/gold color. This serves to "equalize" both sides of the cartridge.

GENERAL REPAIR PROCESS:

DISPENSING TECHNIQUES

- Material may be dispensed directly onto the damaged area, or onto a non-porous surface, such as a spreader or a mixing board.
- Immersing the nozzle in the puddle of material eliminates any air entrapment during dispensing.
- Proceed with application method (ie spreading) as desired.
- You may continue to dispense material until the normal material curing process clogs the mixing nozzle – typically after 2-3 minutes without depressing the trigger. If more repair material is desired after curing has occurred, remove and install a new nozzle.
- Maximum finished thickness should not exceed 1/4 inch.

CAUTION: Be sure to replace nozzles containing fully or semi cured material to prevent damage to cartridge or nozzle or personal injury. Dispose of uncured material in an approved receptacle.

Applications

See "Product Uses" above.

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Storage and Handling When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 12 months from the date of manufacture. Store unopened cartridges in an approved area, and prevent exposure to flame, sparks, or high temperatures. Store previously opened cartridges with the used nozzle in place in an approved area and prevent exposure to flame, sparks, or high temperatures. Use caution not to damage outlets or drive shaft during storage or installation. Optimum storage temperatures 65-80°F (18-27°C), elevated storage temperatures reduce product shelf life.

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

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

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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