



Technical Data Sheet

3M™ Marine Adhesive/Sealant Fast Cure 4000 UV

Product Description

3M™ Marine Adhesive/Sealant 4000 UV is a one-part adhesive sealant that cures to form a firm, rubbery waterproof seal. Its flexibility allows for the dissipation of stress caused by shock, vibration, swelling or shrinking. Designed for marine applications above and below the waterline. Its superior UV resistance properties makes this an ideal cosmetic adhesive sealant.

Product Features

- Superior UV resistance.
- Exceptional sealing properties.
- <1 % VOC
- Low odor.
- Non-shrinking.
- Non-sagging.
- Non-corrosive.
- Non-cracking.
- Caulkable at low temperatures (>4 °C [40 °F]).
- Fast curing.
- Paintable (test for suitability).

Technical Information Note

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

Typical Uncured Physical Properties

Attribute Name	Value
Density	1.4
Consistency	Medium Paste
Base	Polyether

Typical Physical Properties

Attribute Name	Value
Color	White Black
Product Construction	10 fl. oz. cartridge (295 ml) 3 fl. oz. tube (90 ml) 400 ml Flex Pack (13.5 fl. oz.)
Approximate Coverage	36.6 lineal m (120 LF) ¹

¹ 10.5 oz. [310 mm Cartridge]; 1/8 in (3 mm) bead

Typical Cured Characteristics

Attribute Name	Test Method	Value
Shore A Hardness	ASTM C661	39

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)

Substrate	Value
Aluminum	7.7 N/cm (70 oz/in) (Cohesive) ¹
Fiberglass	6.2 N/cm (57 oz/in) (Cohesive) ¹
Gelcoat	6.6 N/cm (60 oz/in) (Cohesive) ¹
Mahogany	5.5 N/cm (50 oz/in) (Cohesive) ¹

¹ 25 mm (1 in) wide specimens on canvas.

Cohesive - Adhesive/Sealant fails before adhesive/sealant releases from substrate. This is the desired mode.

Adhesive Failure - Adhesive/Sealant releases from substrate.

Overlap Shear Strength

Temperature: 23 °C (73 °F)

Substrate	Value
Oak	13.385/15 kg/cm ² (19085/15 lb/in ²) (Cohesive/Adhesive) ¹
Maple	14.880/20 kg/cm ² (21080/20 lb/in ²) (Cohesive/Adhesive) ¹
Fir	13.370/30 kg/cm ² (19070/30 lb/in ²) (Cohesive/Adhesive) ¹
Mahogany	11.260/40 kg/cm ² (16060/40 lb/in ²) (Cohesive/Adhesive) ¹
Aluminum	15.880/20 kg/cm ² (22580/20 lb/in ²) (Cohesive/Adhesive) ¹
Fiberglass	14.0 kg/cm ² (200 lb/in ²) (Cohesive) ¹
Gelcoat	17.6 kg/cm ² (250 lb/in ²) (Cohesive) ¹

¹ 25 mm (1 in) overlap specimens 2.4 mm (0.093 in) thick.

Cohesive - Adhesive/Sealant fails before adhesive/sealant releases from substrate. Desired failure mode.

Adhesive Failure - Adhesive/Sealant releases from substrate.

Attribute Name	Temperature	Substrate	Value
Application Temperature			4 — 38 °C (40 — 100 °F)
Long Term Temperature Resistance			90 °C (190 °F) ¹
Minimum Long Term Temperature Resistance			-40 °C (-40 °F) ¹
Temperature Resistance	23 °C (73 °F)	Fir	17.655/45 kg/cm ² (25055/45 lb/in ²) (Cohesive/Adhesive) ²
Temperature Resistance	23 °C (73 °F)	Aluminum	28.195/5 kg/cm ² (40095/5 lb/in ²) (Cohesive/Adhesive) ²

Attribute Name	Temperature	Substrate	Value
Temperature Resistance	23 °C (73 °F)	Gelcoat	19.3 kg/cm ² (275 lb/in ²) (Cohesive) ²
Temperature Resistance	23 °C (73 °F)	Fiberglass	22.880/20 kg/cm ² (32580/20 lb/in ²) (Cohesive/Adhesive) ²

¹ Long Term (day, weeks)

² 25 mm (1 in) overlap specimens 2.4 mm (0.093 in) thick. Aged 500 hours @ 190 °F (90 °C).
Cohesive - Adhesive/Sealant fails before adhesive/sealant releases from substrate. Desired failure mode.
Adhesive Failure - Adhesive/Sealant releases from substrate.

Attribute Name	Temperature	Value
Elongation		>300 % ¹
Tensile Strength	23 °C (73 °F)	28.1 kg/cm ² (>400 lb/in ²) ¹

¹ A 3.2 mm (1/8 in) dumbbell specimen with a 3.2 mm (1/8 in) square cross section was tested at 51 mm/min (2 in/min)

Product Uses

3M Marine Adhesive Sealant 4000 UV may be used in typical bedding and sealing applications including fiberglass hull, wood to fiberglass, porthole frames, deck fittings, moldings, thru hull and deck hardware.

Handling/Application Information

Directions for Use

1. Surface Preparation

Surface should be clean, dry and free of contaminants. New surfaces should be solvent wiped with 3M™ General Purpose Adhesive Cleaner 08984*, or equivalent. Other than new surfaces should be sanded with a fine grade abrasive to enhance bond strength.

2. Sealing and bedding application

Apply 3M™ Marine Adhesive/Sealant 4000 UV to the seam or part to be bonded. Position parts. Tool and squeeze out material to desired appearance. Remove excess with 3M general purpose adhesive cleaner 08984.*

3. Cleanup

For cleaning 3M marine adhesive/sealant 4000 UV before it is cured, use a dry cloth to remove the majority, followed by a cloth damp with 3M general purpose adhesive cleaner, toluene, acetone, or other good cleaning solvent.*

Cured 3M marine adhesive/sealant 4000 UV can be removed mechanically with a knife, razor blade, piano wire or by sanding.

*Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Cure:

Tack Free (50 %RH, 22 °C, 72 °F): 22 min

Full Cure (50 %RH, 22 °C, 72 °F): 24 hr with 3.2 mm (1/8 in) depth of cure

*Higher temperature and humidity conditions will accelerate the tack free time and cure. Please plan accordingly.

Application Examples

Typical Marine Adhesive Sealant Applications:

Portlights
Hatches
Thru-hulls
Rails
Metal Hardware
Moldings
Wood
Teak
Fiberglass
Gelcoat
Porthole Frames

Storage and Shelf Life

Store under normal conditions of 16° to 27 °C (60° to 80 °F) and 40 to 60 % relative humidity in the original packaging, out of direct sunlight. Lower temperatures cause increased viscosity of a temporary nature. When stored at recommended conditions, the shelf life is 15 months from date of manufacture for cartridges and sausage packs. When stored at recommended conditions, the shelf life is 3 years from date of manufacture for 3 ounce tubes.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577

Automotive Disclaimer

Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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