



Document Library
TS Data Sheet 06510

Rev:3

Status: Active

Effective: 01/31/2003

Marine Sealant 101

3M Part No.(s)

06510

3M Part Descriptor(s)

10.3 fl. oz. cartridge (304.6 ml) - White

Description

3M™ Marine Sealant 101 is a one-part polysulfide sealant that chemically cures to form a firm, rubbery waterproof seal. Designed for marine applications above or below the waterline.

Features

- Flexible
- One-part cure
- Non-sagging formula
- Non-shrinking
- Excellent weathering resistance

Typical Physical Properties

Container	10.3 fl. oz. cartridge (304.6 ml)
Base	Polysulfide
Color	White
Solids Content (Appx.)	98
Consistency	Medium Paste
Service Temperature - °F	-40 to 180
Solvent	Xylene
Specific Gravity	1.6

Product Uses

3M Marine Sealant 101 may be used in typical bedding and sealing applications including fiberglass deck to fiberglass hull, wood to fiberglass, portholes, deck fittings and moldings.

Performance Properties

Tack Free Time -	<5 Hours @ 75 F/50% RH
Cure Time -	2-3 Weeks [75 F/50% RH, 1/8 inch (0.3175 cm)]

Typical Cured Properties:

Tensile & Elongation Test:

A 1/8 inch (0.3175 cm) dumbbell specimen with a 1/8 inch (0.3175 cm) square cross section was tested at 2.0 inches/minute (5.08 cm/minute).

Relative Humidity	Temperature	Tensile Strength psi (kg/cm ²)	Elongation (%)
50%	75°F (23.8°C)	139 (9.77)	416

Overlap Shear Strength- *One inch (2.54 cm) overlap specimens (0.093 inch (0.2362 cm thickness). Samples cured at 75°F (23.8°C), 50% Relative Humidity.*

Substrate	psi	kg/cm ²
Wood(s):		
Teak	54	3.80
Teak (primed)	110	7.73
Mahogany	81	5.70
Metal(s):		
Aluminum	57	4.01
Plastics/Polymers:		
Fiberglass	41	2.88
Gelcoat	49	3.44
Polycarbonate	35	2.46
Acrylic	26	1.83

Application Information

Directions for Use

Application Temperature : 40° F - 100° F

1. Surface Preparation

Because of the many waxes, coatings, and sealants used in the marine industry it is very important to clean all surfaces to be bonded before applying

3M™ Marine Sealant 101. Recommended procedures include cleaning with 3M™ General Purpose adhesive Cleaner, P.N. 08984*.

2. Sealing and bedding application

Abrading the surfaces with a fine grade abrasive will enhance bond strength. Apply 101 to the seam or part to be bonded. Position parts. Tool squeeze out to desired appearance. Remove excess with 3M™ General Purpose Adhesive Cleaner, P.N. 08984*.

3. Cleanup

For cleaning 3M™ Marine Sealant 101 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 101 can be removed mechanically with a knife, razor blade, piano wire or by sanding.

*** When using solvents, extinguish all sources of ignition in the immediate work area and observe proper precautionary measures for handling such materials.**

Some one part solvent based paints may contain solvents that soften the surface of the 101, and will not appear dry in a reasonable period of time. Test for suitability.

Applications

Sealing and Bedding for:

Portlights	Wood
Hatches	Teak
Thru-hulls	Fiberglass
Rails	Gelcoat
Windshields	Metal
Hardware	Primed Glass
Moldings	Most Plastics

Storage and Handling

Recommended Storage Temperature Range: 60 to 80 F

Expected Shelf Life at Recommended Storage Temperature: 36 months

Precautionary Information

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

Country

US

This document is public. It may be distributed.

Important Notice to Purchaser

Technical Data: All physical properties, statements and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the products for the intended use.

* If 'Directions for Use' reference P.N.'s 08984, 08986, or 08987, please read. Federal and local air quality regulations may regulate or prohibit the use of surface preparation and cleanup solvents based on VOC

content. Consult your local and Federal air quality regulations for information. When using solvents, use in a well ventilated area. Extinguish all sources of ignition in the work area and observe precautionary measures for handling these materials. Refer to product label and MSDS for P.N. 8984, 8986, or 8987 for detailed precautionary information.

Warranty and Limited Remedy: 3M warrants this product will be free from defects in materials and manufacture. **3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If the product is proved to be defective your exclusive remedy and 3M's and seller's sole obligation will 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 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

Marine
Center, Building 223-6S-06
St Paul, MN 55144-1000
7-366-2746 (1-877-3M MARINE)