SLIPGrip®

3M Marine 5200 Fast Cure Adhesive Sealant

DESIGN | SUPPLY | FABRICATE | INSTALL

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3M 5200 Marine Fast Cure Adhesive Sealant

Our 3M Marine 5200 Fast Cure Adhesive Sealant is a fast curing, one-part polyurethane that chemically reacts with moisture to deliver strong, flexible bonds with excellent adhesion to wood and fibreglass. Forms watertight, weather-resistant seals on joints and boat hardware, above and below the waterline.

In addition, its flexibility allows for dissipation of stress caused by shock, vibration, swelling or shrinking.

CHARACTERISTICS

- Tough, flexible polyurethane polymer
- One-part moisture cure
- Non-shrinking
- Non-sagging formula
- Can be applied up to 40˚C

SUITABLE APPLICATIONS

- Fibreglass deck to fibreglass hull
- Wood to fibreglass
- Portholes
- Deck fittings
- Mouldings
- Trunk joints
- Between struts and planking
- Stern joints
- Hull planking

SUITABLE SUBSTRATES

- Wood
- Fibreglass
- Gelcoat
- Metal (Primed)
- Most plastics and glass

TECHNICAL DATA

Base:	Polyurethane
Colour:	White
Specific gravity:	1.21
Consistency:	Medium paste
Film formation time:	Approx. 2 hours at 25˚C
Tube size:	295ml
Coverage:	1 x 295ml tube covers 2400mm of RungGrip

Cure time:	24 hours
Solvent:	Acetone/toluene
Application temperature:	5˚C up to 40˚C
Service temperature:	-40˚C up to 88˚C
Storage:	Store in shady dry conditions at room temperature
Shelf life:	12 months if unopened

PERFORMANCE PROPERTIES

Tensile and Elongation Test: A 1/8 inch (3.175 mm) dumbbell specimen with a 1/8 inch (3.175 mm) square cross section was tested at 2.0 inches/minute (5.08 cm/minute)

Relative Humidity	Temperature	Tensile Strength psi (kg/cm^2)	Elongtaion (%)
50%	21˚C (70˚F)	1000 (70.3)	874

Overlap Shear Strength: One inch (2.54 cm) overlap specimens (2.362 mm thickness). Samples cured at 21˚C (70˚F), 50% relative humidity.

Substrate	psi	kg/cm^2
Woods:		
Teak	335	25.0
Pine	543	38.2
Oak	518	36.4
Maple	597	42.0
Fir	600	42.2
Mahogany	407	28.6
Metals:		
Steel	316	22.2
Stainless Steels	197	13.8
Aluminium	203	14.3
Brass	184	12.9
Bronze	176	12.4
Copper	182	12.8
Lead	160	11.2
Zinc (Galvanised)	269	18.9

Substrate	psi	kg/cm^2
Plastics/Polymers:		
Fibreglass	269	18.9
Gelcoat	600	42.2
Polycarbonate	409	28.7
Acrylic	149	10.5
Nylon	140	9.8
ABS	262	18.4
Polypropylene	66	4.6
Polyethylene	0	0

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PREPARATION

- ✓ Always carry out a test to confirm compatibility before use.
- ✓ Surfaces to be bonded must be clean, dry, dust-proof and degreased.
- ✓ Roughen non-porous surfaces.
- ✓ On materials such as glass, aluminium, ceramics, lacquered wood, epoxy and polyester, no primer is required.

APPLICATION

1. 	Abrading the surfaces with a 180 grit to 220 grit abrasive will enhance the bond strength.
2. 	Cut tip to desired bead size, puncture seal in nozzle and remove the seal at bottom end of cartridge. Place cartridge in a caulk gun. Apply 3M Marine Adhesive to the seam or part to be bonded. Position parts. Tool material to desired appearance. Sealant should be used within 24 hours after inner seal in punctured, as product will start to cure in the cartridge and nozzle,

Cure	Relative Humidity	Temperature	Time	Cure Depth
Open Time	50%	21˚C (70˚F)	1 Hour	N/A
Open Time	50%	32˚C (90˚F)	15 Minutes	N/A
Full Cure	50%	21˚C (70˚F)	24 Hours	1/8 inch (3.175mm)

These installation instructions are to be used as a guide. Always employ safe practices. It is recommended to first test the suitability of any product on a small area before carrying out a full application.

CLEANING

For cleaning 3M Marine 5200 Fast Cure Adhesive Sealant before it is cured, use a dry cloth to remove the majority, followed by a cloth damp with toluene or acetone. Cured 3M Marine 5200 Fast Cure Adhesive Sealant can be removed mechanically with a knife, razor blade, piano wire or by sanding.

PLEASE NOTE

3M 5200 Marine Fast Cure Adhesive Sealant is not recommended for use as a teak deck seam sealer as certain solvents contained in teak cleaners and sealant may damage the sealant.

LIMITATIONS

- Alcohol should not be used in preparation for boding as it will stop the curing process.

- Heat resistance- Maximum 190˚F (88˚C). Due to the decreased value in bond strength at elevated temeratures, we do not recommend use of this product above 190˚F (88˚C).

- Do not apply at temperatures below 40˚F (4˚C) or on frost covered surfaces.

- 3M Marine Adhesive/Sealant Fast Cure 5200 is not recommended for use as a teak deck seam sealer. Extended exposure to chemicals (teak cleaners, oxalic acid, gasoline, strong solvemts and other harsh chemicals) may cause permanent softening of the sealant.

- 3M Marine Adhesive/Sealant Fast Cure 5200 is not recommended for the installation of glass, polycarbonate or acrylic windows that are not also mechanically fastened with a system designed by the manufacturer. Inconsistent adhesion of these unprimed substrates, specific design of the window, and movement due to thermal expansion and flexing, may cause application failure.

- When using 3M Marine Adhesive/Sealant Fast Cure 5200 with metals, it may be necessary to prime the surface to achieve adequate adhesion and durability of the bond.

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