



Technical Data Sheet

3M™ Weatherban™ Acrylic Sealant 606-NF



[Regulatory Info/SDS](#)

Product Description

3M™ Weatherban™ Acrylic Sealant 606-NF is an excellent, synthetic, multipurpose, water-dispersed sealant. A multi-purpose product ideal for many interior and exterior sealing applications. Can be applied with most conventional caulking guns or pressurized flow equipment. Seals many metal, wood, painted or primed surfaces, and certain abraded plastics.

Product Features

- Non-Flammable When Wet. A water-dispersed product.
- Easy Handling. Spreads easily like whipped butter. Can be readily “struck” with a wet spatula, easily smoothed to a feather edge. Will not sag out of vertical seams or gaps.
- Non-Stringing. Beads cut off cleanly.
- Fast Tack-Free Time. Typically skins over in 20-40 minutes. Helps prevent dirt pick up. Allows rapid paint over. No staining, no bleed through even with white enamels or lacquers.
- Permits Weld-Through. Can be used as a “weld-through” sealer using conventional spot welding equipment.
- Low Shrinkage. High solids content.
- Tough, Yet Flexible. Sets firm, stays flexible to provide a rubber-like, water resistant seal.
- Long Lasting. Excellent aging qualities help prevent cracking, chipping or peeling.
- Versatile. Good freeze/thaw stability in the container.

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 |
|----------------|-------------------------------|
| Base | Synthetic Elastomer (acrylic) |
| Net Weight | 12.3 — 13.6 lb/gal |
| Consistency | Pumpable Paste |

Typical Physical Properties

| Attribute Name | Value |
|--------------------------|---|
| Color | White |
| Solids Content by Weight | Water % |
| Caulk Rate | 2,000 g/min ¹ |
| Weather Resistance | Large beads of 3M™ Weatherban™ Acrylic Sealant 606-NF were aged on automotive steel panels for 1000 hours in a Sunshine Arc Weatherometer and for two years of outdoor weathering in Florida with only slight surface yellowing observed. |
| Weld-Through Properties | Can be successfully spot welded through if the spot welder is of the type that has an electrode on either side of the joint being joined. |

¹ Extrusion Test - 1/4 in. diam. orifice @ 25 psi

Typical Performance Characteristics

180° Peel Adhesion

Dwell Time: 72 h

| Substrate | Value |
|--------------------------------|---|
| Aluminum | 8.8 N/cm (80 oz/in) (Cohesive) ¹ |
| Anodized Aluminum | 10.5 N/cm (96 oz/in) (Cohesive) ¹ |
| Baked Enamel | 1.8 N/cm (16 oz/in) (Adhesive) ¹ |
| Ceramic Tile - Glass Surfaces | 12.3 N/cm (112 oz/in) (Cohesive) ¹ |
| Ceramic Tile - Porous Surfaces | 14 N/cm (128 oz/in) (Cohesive) ¹ |
| Cold Rolled Steel | 14 N/cm (128 oz/in) (Cohesive) ¹ |
| Concrete | 10.5 N/cm (96 oz/in) (Cohesive) ¹ |
| Fir | 8.880 N/cm (8080 oz/in) (% Wood Failure) ¹ |
| Galvanized Steel | 8.880 N/cm (8080 oz/in) (% Adhesive) ¹ |
| Glass | 10.5 N/cm (96 oz/in) (Cohesive) ¹ |
| Marine Fiberglass | 10.5 N/cm (96 oz/in) (Cohesive) ¹ |
| Oak | 14 N/cm (128 oz/in) (Cohesive) ¹ |
| Rigid Vinyl | 12.3 N/cm (112 oz/in) (Cohesive) ¹ |
| Stainless Steel | 14 N/cm (128 oz/in) (Cohesive) ¹ |

¹ Canvas to substrate, Dwell of 24hr @ 75°F + 48hr @ 160°F, Scott Tester, 180° peel, 2 in/min. Note: 606-NF loses adhesion after 2hr water submersion. Adhesion loss should not result from occasional wetting or high humidity.

| Attribute Name | Value |
|----------------------------|---|
| Temperature Use Range note | Retains its flexibility at temperatures as low as -28°F (-33°C) and up to 180°F (82°C). |

Elongation

| Dwell Time | Temperature | Test Condition | Value |
|------------|-----------------|----------------|--------------------|
| | 22 °C (72 °F) | | 160 % ¹ |
| | 49 °C (120 °F) | | 175 % ¹ |
| | 60 °C (140 °F) | | 165 % ¹ |
| | 70 °C (160 °F) | | 150 % ¹ |
| | 93 °C (200 °F) | | 130 % ¹ |
| | 121 °C (250 °F) | | 110 % ¹ |
| 7 d | 82 °C (180 °F) | 22°C (72°F) | 175 % ² |
| 14 d | 82 °C (180 °F) | 22°C (72°F) | 150 % ² |
| 30 d | 82 °C (180 °F) | 22°C (72°F) | 175 % ² |
| 60 d | 82 °C (180 °F) | 22°C (72°F) | 150 % ² |

¹ Free cured films gave the following properties when pulled at different temperatures using an Instron tensile tester.

² Similar films were aged at 180°F (82°C) and then tested at 75°F (24°C).

Handling/Application Information

Directions for Use

Surface Preparation: To obtain maximum sealing efficiency, the surface to which the sealer is applied must be clean, free of moisture and loose particles. Masonry surfaces should be brushed free of loose dust. If necessary, metal surfaces should be wiped with solvent such as 3M™ Scotch-Grip™ No. 3 Solvent followed by wiping with a clean, dry cloth.*

Application: 3M™ Weatherban™ Acrylic Sealant 606-NF applies easily, can be painted over within 20-30 minutes after application and dries to a tough, flexible, rubber-like bead. When dry, it resists water, vibration, heat, cold, and adheres well to many bare metal, primed metal and painted surfaces. Ideal for sealing many interior or exterior joints and can be smoothed to a feather edge using a wet spatula.

Material will form a plug in the nozzle of partly used cartridges. Plug is easily removed allowing usage of remaining material.

Cleanup: Wet sealant can be readily cleaned up with water. For removal of dried sealer from tools and equipment, the use of solvent such as 3M™ Scotch-Grip™ Solvent No. 2 is suggested.* Dried excess sealant from application sites may be removed by scraping with a sharp spatula followed by wiping with a cloth or hot, soapy water and a coarse cloth.

Drying Rate: At 75°F (24°C) and 50% relative humidity, will generally dry “tackfree” to the touch in less than one-half hour. Drying time will vary with atmospheric conditions and joint design.

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

Dispensing Equipment

Air Motor: 1/4 in diameter minimum.

Pump Tube: Stainless steel with PTFE packings. Double acting ball check type. Pressure primer required with tire-type follower plate suggested.

Hose: High pressure neoprene.

Pump Ratio: 60°F (16°C) or above, uses a 10:1; below 60°F (16°C), uses a 24:1.

Note: Pressure ratio and air motor size of pump may have to be changed if hose length or I.D. is changed. Flow rate with 20 ft. of 1/2 in hose, 1/4 in tip flow gun at 60°F (16°C), 10 to 1 ratio pump was one pound per minute.

Appropriate dispensing equipment enhance sealant performance. We suggest the following dispensing equipment for the user’s evaluation in light of the user’s particular purpose and method of application. Please be sure to follow the equipment manufacturer’s precautions, directions for use, and recommendations for equipment.

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, unopened packaging, out of direct sunlight. Lower temperatures cause increased viscosity of a temporary nature. Product will become unusable with prolonged storage under 4°C (40°F). Protect from freezing. For best performance, use this product within 15 months from date of manufacture.

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.

Information

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M’s option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

ISO Statement

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

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

3M, Weatherban and Scotch-Grip are trademarks of 3M Company.
© 3M 2024 (6/24)