

TECHNICAL DATA SHEET

DESCRIPTION:

Protoseal MS Power Sealant is an advanced hybrid sealant that leverages silane-modified polymer (SMP) technology to offer exceptional adhesion, flexibility, and durability for various applications. Its formula combines high-quality fillers, plasticizers, adhesion promoters, UV stabilizers, antioxidants, and curing agents to ensure superior performance and longevity. Designed to bond with various materials without the need for primers, this sealant is ideal for construction, automotive, marine, and industrial uses. Its low VOC composition makes it environmentally friendly and safe for users. Protoseal MS Power Sealant is available in multiple colors and seamlessly matches any project, ensuring aesthetic appeal and effective sealing against environmental conditions.

OFFERED AS:

Item #	Size	Color
197644829767	20.2 fl oz (600 ml) sausage	White
197644419920	20.2 fl oz (600 ml) sausage	Dark Bronze

FEATURES & BENEFITS:

- ▶ **Flexibility:** ±50% Joint movement Capability.
- ▶ **Broad Temperature Application Range:** Can be applied in temperatures from 0°F to 140°F.
- ▶ **Rapid Cure Time:** Achieves full cure within 24 hours for enhanced protection. *
- ▶ **Color Options:** White and Dark Bronze.
- ▶ **Paint Compatibility:** Ready for painting in just 30 minutes.
- ▶ **Primer-Free Adhesion:** Bonds strongly to various building materials without a primer.



*Note: The actual cure time may vary based on temperature, humidity, and the thickness of the applied sealant.

SUITABLE FOR:

Protoseal Ms Power Sealant is meticulously engineered as a high-performance hybrid sealant, offering exceptional versatility for sealing windows, doors, and siding. Its formulation ensures optimal application in indoor and outdoor environments, providing superior adhesion to a wide array of materials without the prerequisite of a primer. Crafted explicitly to enhance the durability and sealing efficacy of windows, doors, and siding, Protoseal Ms Power Sealant is the go-to choice for professionals seeking a robust solution. Its compatibility extends to a multitude of surfaces such as fiber cement, cedar, brick, stone, both extruded and expanded polystyrene (XPS and EPS), coated aluminum, steel, fiberglass, vinyl, polyvinyl chloride (PVC), stucco, exterior insulation, and finish systems (EIFS), wood, glass, concrete, masonry, and flashing tapes. Moreover, it excels in adhering to most architectural coatings and finishes, ensuring a seamless and long-lasting seal that stands up to the elements and enhances the aesthetic appeal of any project.

LIMITATIONS:

- ▶ **Temperature Application Range:** Only apply within the recommended temperature settings.
- ▶ **Surface Compatibility:** Not suitable for certain porous or non-porous surfaces without proper preparation.
- ▶ **Chemical Resistance:** Avoid areas prone to regular contact with aggressive solvents or oils.
- ▶ **Water Immersion:** Not designed for continuous underwater use.
- ▶ **Curing Conditions:** Adhere to specific curing times before exposure to elements or load.

COVERAGE:



For a 20.2 fl. oz. (600 ml) sausage:

- ▶ A 1/4" (6 mm) bead extrudes approximately 48.1 ft. (14.1 m)
- ▶ 3/8" (9.5 mm) bead extrudes approximately 32.1 ft. (9.8 m)



TECHNICAL DATA:

Typical Uncured Physical Properties:			
Color:	White, Dark Bronze	Specific Gravity:	1.41
Appearance:	Stable Paste	Flash Point:	224.6° F (107° C)
Base:	Silane Modified Polymer	Volatile Organic Content (VOC)	30g/l
Odor:	Low	Shelf Life:	12 months from the date of manufacture (unopened)

Typical Application Properties:	
Application Temperature:	Can be applied between 0°F (-18°C) and 140°F (60°C) <i>For easier extrusion of sealant at lower temperatures, store the cartridge at room temperature for at least 24 hours before use</i>
Skin Formation Time:	17-20 minutes* <i>At 72°F and 70% relative humidity</i>
Tack-free Time:	1 hour <i>At 72°F and 70% relative humidity</i>
Cure Time:	24-72 hours* <i>*Cure time is dependent on temperature, humidity, and depth of sealant applied</i>
Extrusion Rate:	148.7 ml/min ASTM C1183 (Procedure A)
Vertical Sag:	0-mm ASTM C639
Weight Loss:	Pass ASTM C1246
Skin Time:	2 to 3 hr ASTM C679
Stain and Color Change:	Pass ASTM C510
Effects of Accelerated Aging:	Pass ASTM C793

Typical Cured Performance Properties:			
Color:	Bronze, White	Hardness:	52 ASTM C661
Service Temperature:	-14°F (-25°C) to 158°F (70°C)	Joint Movement:	± 50% ASTM C719
Water Resistant:	Yes	Tensile Strength:	350 psi ASTM D412
Paintable:	Yes, with latex paint or primer	Maximum Elongation:	525% ASTM D412
Air Release capable:	Yes	180° Peel Adhesion:	ASTM C794
Mortar:	40.0 lb./in	Coated (Painted) Aluminum:	57.1 lb./in
Nail-Hole Filling:	Avoid employing nail hole fillers or conducting touch-up work on prefinished, colored cladding and trim. These products are intended for unfinished or primed siding materials before painting. For nail hole repair on prefinished surfaces, adhere to the specific guidelines provided by the cladding manufacturer.		

SPECIFICATIONS: Meets the performance requirements of:

- ▶ ASTM C920 Type S, Grade NS, Use NT, Class 50, M G and A
- ▶ Federal Spec. TT-S-00230C (COM-NBS) Class A for one-component building sealant.
- ▶ ASTM C1184 Standard Specification for Structural Silicone Sealant
- ▶ GREENGUARD Certified

DIRECTIONS:

- ▶ **Required Tools:** A utility knife and caulking gun are needed. A high-quality caulking gun is recommended for optimal results.
- ▶ **Safety Measures:** Always wear gloves and thoroughly wash your hands after handling the product.
- ▶ **Surface Preparation:** To ensure optimal adhesion, surfaces must be clean, dry, and free of contaminants such as old caulking, grease, and dust. Although this product is designed for application on wet surfaces, removing any ice, snow, or frost from the substrate beforehand is essential. Moisture does not impede adhesion; however, trapped dust and grease can lead to issues such as sealant bubbling. While Protoseal MS Power Sealant typically does not require a primer, specific conditions or surfaces may demand its application. Testing the sealant's compatibility and adhesion on a small, representative area is imperative before proceeding with the full application. Additionally, ensure the sealant's color is consistent with all surfaces intended for treatment before initiating the pro
- ▶ **Masonry:** Clean masonry surfaces as needed to reveal a sound surface.
- ▶ **Wood and Painted Wood:** Ensure the wood is clean and sound. If necessary, remove old paint to expose bare wood.
- ▶ **Metal:** Clean metal surfaces to remove scale, rust, and other residues to expose a bright metal surface.
- ▶ **Joint Preparation:** Design joints for a maximum of $\pm 50\%$ movement. The sealant depth should be half the width of the joint, with specific guidelines for various joint sizes.
- ▶ **General Application Guidelines:** Keep the product, surfaces, and working area between 0°F (-18°C) and 140°F (60°C). Use a quality caulking gun to apply a 3/8" bead of sealant for optimal protection. Avoid tooling or smearing the sealant on prefinished surfaces to prevent UV damage and ensure joint durability. Full cure time ranges from 24-72 hours, depending on conditions.
- ▶ **Application Tips:** Apply sealant in bead form, ensuring even coverage and bond. Use backer rods or bond breakers as necessary to maintain proper joint depth. Please avoid using the sealant as a nail hole filler or in applications that are unsuitable for its properties.
- ▶ **Clean-up:** Remove uncured sealant and clean tools with mineral spirits or paint thinner. Cured sealant must be carefully removed with a sharp tool.
- ▶ **Product Safety, Handling, and Storage:** This product is resistant to damage from freezing. It should be kept in a cool, dry, and well-ventilated location far from sources of heat, open flames, and sparks. Exposure to excessively high or low temperatures can significantly shorten the product's lifespan while still sealed. Dispose of this product at a certified hazardous waste disposal site.



SAFETY

- ▶ See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at Proto-seal.com or email: contact@proto-seal.info

DISCLAIMER:

The content provided herein results from our diligent research and is presented with the belief that it is accurate. However, we do not offer any guarantee, whether expressed or implied. JLMD Investments advises that all users or purchasers conduct their own tests with the products to confirm their quality and appropriateness for intended applications. All uses of adhesives or sealants must be subject to thorough testing under conditions that mimic or replicate the actual conditions of use to ensure that the products meet or surpass the project's requirements. Given that the conditions of assembly can significantly impact the performance of adhesives or sealants, it is further recommended that tests include specimens prepared under conditions that simulate or replicate actual production environments. Nothing in this document should be interpreted as suggesting the absence of relevant patents or offering permission or encouragement to use any patented invention without the patent owner's consent.

LIMITED WARRANTY:

Protoseal ensures its Ms Power Sealant is defect-free when used as directed. If defects occur, Protoseal may replace or refund the product, which is the sole extent of our obligation and your sole recourse. No other warranties are provided. Protoseal is not responsible for any indirect damages from using or inability to use the product.



- ▶ Your rights under this limited warranty may vary by state.
- ▶ For warranty support, contact Protoseal at **1.800.414-0767**, Monday-Friday, **9:00 am to 5:00 pm ET**.