



# MS Polymer Sealer PS55

Single-component sealant

## Characteristics

**Bardahl MS Polymer Sealer PS 55** is an advanced sealing and bonding product designed for a wide range of applications in the food, pharmaceutical, and beyond industries, among others. This one-component product is based on MS polymer technology, giving it excellent ageing, weather, UV, moisture and temperature resistance. It is free of solvents, isocyanate, and other harmful substances, making it non-shrink or tear and a safe choice for various industries. Bardahl's innovative formula ensures strong adhesion to a wide range of materials and substrates, even under extreme conditions, without the need for a primer. It is additionally NSF registered under Nonfood Compounds: P1, indicating that it is safe for use in environments where food safety is critical.

NSF Reg. No. 163 419  
Category Code: P1

## Application

The applications of **Bardahl MS Polymer Sealer** are versatile, from sealing and bonding in metal and body construction to specific applications in the food and pharmaceutical industries. It is ideal for gluing long metal strips to various substrates, silo seals, bonding air filters in metal enclosures, and for seals at manholes and hatches. Due to its wide compatibility, Bardahl MS Polymer Sealer adheres effectively to metals, plastics, wood, glass, and porous surfaces, provided the substrate is clean, dry, and free of grease. This product offers rapid skin formation and is sandable after curing, allowing it to be seamlessly integrated into production and repair processes.

## Safety Data Sheet (MSDS)

Safety Data Sheets (MSDS) for Bardahl products are available upon request. These documents, which provide detailed safety information about the product, can be accessed through Bardahl's official website. Moreover, you can also obtain it by contacting a representative at Bardahl directly. This ensures that users and processors of Bardahl products have the necessary information on the safe use, handling and storage of these industrial lubricants.

## NSF

The NSF certification is a quality brand mark that is recognized worldwide for products used in the food industry, including Bardahl Food Products. This certification is awarded by NSF International, an independent organization that protects public health and safety. An NSF certificate ensures that the product meets strict standards for hygiene, safety, and quality. For food and pharmaceutical manufacturers and processors, the use of NSF-certified products is crucial, as it helps ensure the safety of their manufacturing processes and the final product. This contributes to consumers' confidence in the safety of the foods they consume and supports regulatory compliance. The use of NSF-certified lubricants is an essential step for companies striving for the highest operational standards and quality assurance in their manufacturing processes.

## Key Benefits to Consider

### Core product features of Bardahl MS Polymer Sealer PS55

- ✓ MS Polymer Base: Provides strong adhesion and durability.
- ✓ Weather and UV resistant: Age-resistant and impervious to external elements.
- ✓ Temperature resistant: Retains properties from -40°C to +90°C, temporarily up to 180°C.
- ✓ Solvent and Isocyanate Free: Minimizes shrinkage and cracking.
- ✓ Hydrophobic: Water-repellent properties.
- ✓ Fast Curing: Cures due to humidity with rapid skin formation.
- ✓ Chemically Inert: Biodegradable and safe for humans and animals.
- ✓ Without Primer: Adheres to dry and wet surfaces, including metals and plastics.

### Certificates & Standards

- ✓ NSF Policy Number: 163 419
- ✓ Category Code: P1

Category	Test Method	Unit	Results
Base Material			MS Polymer
Components			1-C
Type			elastic
Constancistancy			paste
Specific gravity		g/ml	1,4 g/ml.
Hardeing formation		bij 20°C; 50% RV	5 min. at 20°C; 50% RV
Adhesion time		bij 20°C; 50% RV	25 min. at 20°C; 50% RV
Curing after 24 hours		bij 20°C; 50% RV	ca 3mm atj 20°C; 50% RV
Standing power		bij 25mm; 20°C	<5mm at 25mm; 20°C
Solvent and isocyanate quality		%	0%
Weight loss after curing		%	1%
Volume loss after curing		%	3%
Penetratic (0,1mm)		bij 20°C	150 at 20°C
Shore A			55
E Modules bij 100% rk.*		MPa	0,9 MPa
Rack. in case of breakage*		%	>300%
Max. durable*		mPa	1,4 MPa
Permissible heating			
Temperature resistant		°C	-40°C to +90°C
UV & Weather Resistance			very good
Color			white, grey, black, brown
Application			P1 (reg. Nr 1806084)

Content Availability	Unit	Article number	
Cartridge – Zwart	290 ml	77202	✓
Cartridge – Grijs	290 ml	77212	✓
Cartridge – Wit	290 ml	77222	✓

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## Bardahl – For a world without friction

Bardahl is committed to providing advanced lubrication solutions tailored to your specific needs. With a focus on innovation and technical excellence, we have been serving a wide range of industries worldwide for over eight decades. Our team of experts, driven by a passion for tribology, provides personalized support and advice to ensure the success of our clients in different markets. Leveraging our extensive experience, we develop high-quality lubricants that are designed to meet the changing requirements of our customers.

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The document's data is based on Bardahl's extensive experience and is aimed at technically experienced readers and provides insight into potential applications. It is important to note that the document does not guarantee product features, and users must conduct their own preliminary tests for specific applications. The data provided are indicative and depend on the composition, use and application method of the lubricant. Because the performance of lubricants can vary under different mechanical, dynamic, chemical, and thermal conditions, these factors can affect the functionality of components. Bardahl encourages direct contact to discuss specific applications and is open to providing samples for testing. Please note that Bardahl is constantly improving its products and reserves the right to change technical data at any time.