

 **COATWEL**

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COATWEL **BOND311**

Structural
One-component
Sealant



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COATWEL BOND 311 is a **Consumer Chemical Product Subject to Safety Verification** that strictly complies with safety standards.

MTG Co., Ltd. is a company dedicated to researching, developing, and manufacturing industrial goods and chemical products for the industrial sector. We have developed welding replacement sealants, structural adhesives, and metal protective coatings, among others, and have applied them to ships and industrial sites.

We continuously strive to address on-site improvements, prioritizing cost reduction and safety. Our goal is to research and develop products that meet our customers' demands by considering their requirements in an ever-evolving industrial landscape.

MTG aims to be a company that provides safe and successful solutions through collaboration with customers and innovation. **We aspire to grow together as a reliable partner based on sustained research and trust.**



Product Description

COATWEL BOND 311 is a high-performance, one-component, multi-purpose adhesive sealant specifically designed for advanced functionality. It delivers exceptional bonding strength for joining dissimilar material structures.

This product is a user-friendly and efficient one-component moisture-curing type, allowing for easy application without the need for mixing a base material with a curing agent or performing additional curing processes. Furthermore, it exhibits excellent adhesion to a wide variety of substrates, enabling strong bonds between various metals as well as plastics, rubber, and other diverse materials.

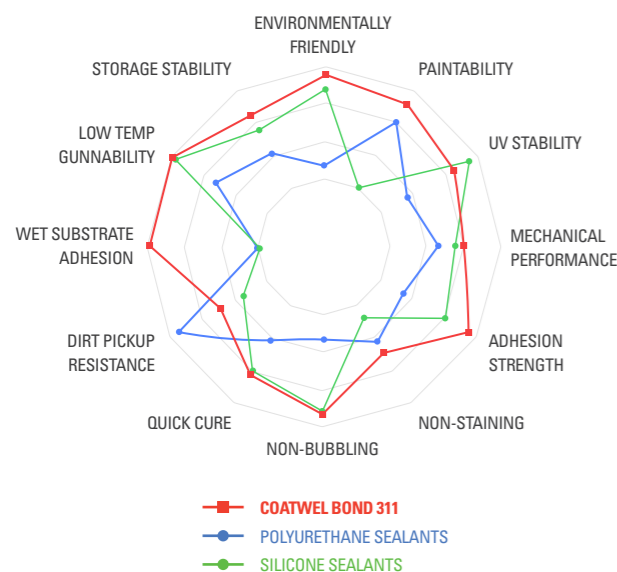
It is free from the 10 hazardous substances regulated by RoHS and asbestos. Additionally, it has obtained the safety certification mark by complying with the safety standards for household chemical products subject to safety verification.

Product Specifications

Packaging Methods	Cartridge Type	Tube Type
Color	Gray	White
Specific Gravity	1.46	1.4
Tensile Strength(MPa)	6.3	6.2
Adhesive Shear Strength(MPa)	8.0	4.6
Curing Methods	Moisture Curing	
Dry to Touch Time	Within 20 minutes	
Neutral Salt Spray Test (5% salt)	600 hours, No abnormalities found	
Workable temperature	0°C~40°C	
Adapted temperature after curing	-50°C~120°C	
RoHS 10 Substances Test	CLEAR	
Asbestos Detection Test	CLEAR	

Characteristics

- ✔ High-performance, one-component moisture-curing adhesive specialized for advanced functionality
- ✔ Excellent chemical resistance to acids, alkalies, and other chemicals
- ✔ Flexibility under continuous vibration
- ✔ Excellent sealing performance. (water-tightness, air-tightness)
- ✔ Improved shear strength and compressive strength, enhanced durability through load distribution
- ✔ Simplified work processes enable cost reduction and weight reduction
- ✔ Capability to bond complex shapes, offering greater design flexibility
- ✔ Combines the advantages of urethane and silicone, providing excellent resistance to contamination, weathering, and durability



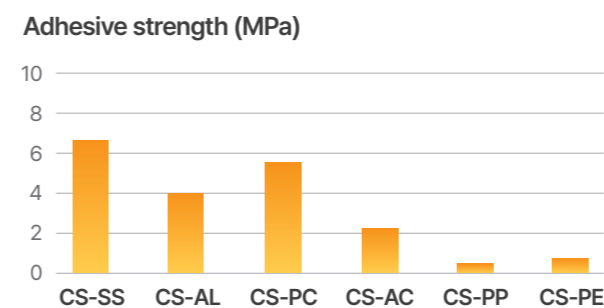
Purpose

- Areas requiring sealing
- Locations needing dustproof, rust-resistant, and waterproof features
- Areas requiring high-strength adhesion
- Bonding of various metals and dissimilar materials with different coefficients of thermal expansion, such as metal to plastic and rubber
- Bonding applications requiring durability against repeated thermal cycles

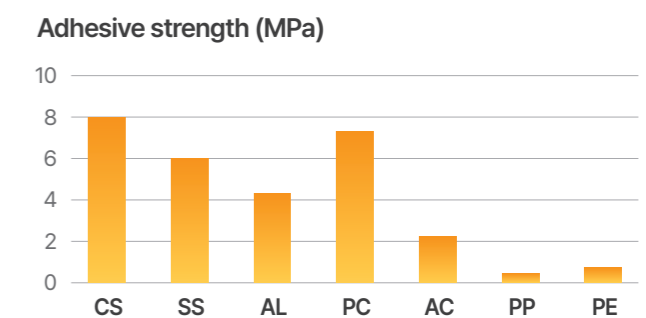
Application Area



Shear Adhesion Strength for Bonding Dissimilar Materials



Shear Adhesion Strength for Bonding Similar Materials



(CS: Carbon Steel, SS: Stainless Steel, PC: Polycarbonate, PP: Polypropylene, PE: polyethylene, AC: Acrylic)
*Testing Method: Conducted in accordance with ASTM D1002