

TECHNICAL DATA SHEET

MS NEUTRAL-CURE SEALANT

Product Description:

DMS is a single-component, modified silane (MS) neutral-cure sealant featuring non-corrosive, low-odor, and fast-curing properties with excellent adhesion to most building materials. It is suitable for various temporary bonding and sealing applications, as well as interior finishing works involving wood panels, ceramic tiles, glass, cement surfaces, gypsum boards, and other materials proven suitable through testing.

For application, the sealant is applied with a caulking gun to the bonding or sealing area. The product cures by absorbing moisture from the air at room temperature, forming an elastic material that provides effective adhesion and sealing.

Product Features:

- New eco-friendly material based on MS silane-modified polymer; single-component, room-temperature-curing elastic sealant.
- Excellent adhesion and wide applicability across most common building substrates.
- Non-cracking, fast curing, smooth extrusion performance, and low shrinkage.
- Can be applied under +5°C to +40°C conditions.
- Substrates must be clean and dry; moisture or wet surfaces will affect adhesion.

Environmental Characteristics:

- Solvent-free, with no release of formaldehyde, toluene, or xylene harmful to humans.
- Extremely low VOC content — environmentally friendly and green.
- Mildew-resistant, non-toxic, and odorless.
- Free from aromatic hydrocarbons, ketones, aldehydes, ethers, organotin compounds, and isocyanates.

Typical Applications:

- Bonding and sealing for interior decoration joints such as skirting board installation and wall panel bonding.
- Various temporary sealing applications, e.g. exhibition booth setup and decoration.
- Interior finishing works involving wood panels, ceramic tiles, glass, and cement surfaces.
- Other uses proven suitable by prior adhesion and compatibility testing.

Instructions for Application:

- Prior to application, perform an adhesion and compatibility test with the sealant and the substrate.
- Remove dust from the substrate surface by blowing or vacuuming, then thoroughly clean with alcohol or a suitable solvent to ensure complete dryness; apply sealant within 30 minutes after cleaning.
- Ensure the sealant adequately fills the gaps, forming a dense layer in close contact with the substrate surface, and smooth out sealant joints within 5 minutes after application.
- The optimal temperature range for applying the sealant is +5°C to +40°C.

Application Restrictions:

- Not for use as a structural sealant.
- Not suitable for exterior wall joints.
- Not for substrates that may exude oils, plasticizers, or solvents (e.g., oiled wood).

- Not suitable for closed or unventilated areas, as the sealant requires air moisture to cure.
- Not suitable for frosted or wet surfaces.
- Not suitable for continuous immersion or permanently humid environments.
- Avoid long-term exposure to direct sunlight or temperatures above 70°C.
- Avoid contact with rubber materials (such as gaskets or pads) to prevent yellowing.
- Avoid contact with acidic or alkaline substances to prevent discoloration.
- Do not apply when surface temperature is below +5°C or above +40°C.

Technical Parameters:

No.	Test Item	Standard Requirement	Test Result
1	Appearance	Fine, uniform paste without lumps, gels, crust, or visible separation	Fine, uniform paste without lumps, gels, crust, or visible separation
2	Sagging (vertical), mm	≤ 3	0
3	Tack-free time, h	≤ 3	0.5
4	Density, g/ml	1.8 ± 0.1	1.82
5	Qualitative	≤ 20	0
6	Tensile Adhesion Strength at 23°C, MPa	≥ 0.3	0.5
7	Thermal Aging, Weight Loss %	≤ 8	2.0
8	Horizontal Placement	No deformation	No deformation

Note: The aforementioned performance data are based on measurements taken at a temperature of 25°C and 55% relative humidity. The company does not accept responsibility for any variations in data that may result from different testing conditions or from enhancements made to the product.

Hazardous Substance Test Results:

No.	Test Item	Test Reference	Limit Req.	Unit	Result	Evaluation
1	Free Formaldehyde	GB 18583-2008	< 0.05	g/kg	ND	Pass
2	Benzene	GB 18583-2008	< 0.01	g/kg	ND	Pass
3	Toluene + Xylene	GB 18583-2008	< 0.04	g/kg	ND	Pass
4	Total VOC	GB 18583-2008	≤ 100	g/L	28	Pass

Complies with GB 18583-2008 — Limit of harmful substances in adhesives for interior decoration materials.

Available Colors:

Black, White, Gray, or other colors as required by customers.

Storage and Transportation:

- The product is classified as non-hazardous and is transportable as a general chemical product.
- Store below 27°C in a cool, dry place, away from direct sunlight.
- Shelf life is 9 months from the production date under proper storage conditions.
- Production date: Refer to the print on the packaging.

Safety Instructions:

- Before using the product, the Material Safety Data Sheet (MSDS) should be reviewed.
- Once fully cured, the sealant is non-toxic, but uncured material must not contact eyes. In case of contact, rinse thoroughly with plenty of water and seek medical advice immediately.
- Keep uncured product out of reach of children.
- During curing, the sealant releases small molecular compounds; ensure adequate ventilation during use to prevent discomfort from high concentrations.

Warranty and Quality Assurance:

- The company is certified under ISO 9001 / ISO 14001 / OHSAS 18001 management systems.
- Production and quality control strictly follow ISO 9001 standards.
- The product complies with all relevant standards; however, the company offers no further explicit or implied warranties beyond product return or replacement.
- Prior to use, the user should determine the product's suitability for the specific application. The company disclaims liability for incidental or consequential damages.
- For any issues encountered during use, customers are encouraged to contact the company's after-sales service department for assistance.

Maintenance:

- Normally maintenance-free under standard usage conditions.
- If the sealant joint is damaged, remove dirt with a suitable solvent and reapply new sealant. The product adheres well to cured sealant.

