

Maxisil® A

Technical Datasheet

Characteristics:

- 1-component acetate-curing silicone sealant
- Excellent weathering, ageing and UV-resistance
- Enables a great finish, will not string out during application
- Good tooling and smoothing properties
- Contains fungicides
- Medium skin formation time for easy handling
- Very good adhesion on ceramic substrates
- Primerless adhesion to many other substrates
- Stress expansion modulus at 100 % (DIN 53 504, S3A): 0,3 N/mm²
- Meets Din 18545,part 2D (German industrial standard)
- Available in a variety of colours. Custom colours also available upon request

Fields of application:

- Sealing connection joints between ceramic tiles, showers, baths and flooring sections
- Expansion / movement joints in bathroom and wet areas
- Sealing of connection joints on door and window frames
- Sealing of double-glazing joints
- Glass block glazing
- Sealing general building substrates
- Interior and exterior use

Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT CC 25 LM
- Tested according to EN 15651 – Part 2: G CC 25 LM
- Tested according to EN 15651 – Part 3: XS 1
- "Highly recommendable non-hazardous building product" according to building material list (TOXPROOF) of the TÜV Rhineland, Germany
- Suitable for applications according to IVD instruction sheet no. 3-1+3-2+14+31+35 (IVD = German industry association sealants)
- Quality seal of the IVD (Industrial association for sealants, registered society), tested by the ift Rosenheim (Institute of window engineering, registered society)
- According to regulation (EG) Nr. 1907/2006 (REACH)
- Conform to LEED® IEQ-credits 4.1 (Indoor Environmental Quality) adhesives and sealants
- Suitability for DGNB
- French VOC-emission class A+
- Certified according to GOS
- Declaration in "baubook" Austria
- EMICODE® EC 1 Plus - very low emission

Important information:

Before application, the user should ensure the materials in the contact area (solid, liquid and gaseous) are compatible with the sealant and also each other, so as they do not damage or alter (e. g. discolour) each other. If in doubt the user should consult each manufacturer of the surrounding substrates.

While curing, small amounts of acetic acid are released. Ensure good ventilation during application and curing.

After curing the product is completely odourless, physiologically harmless and unmodified.

The required vulcanization time prolongs with increasing thickness of the silicone layer. One-component silicones must not be used for full-surface bonding applications, unless special constructional prerequisites are met. If one-component silicones are to be used for thickness layers of more than 15 mm please contact our technical department beforehand.

Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

When restoring joints contaminated with mould, the existing elastic sealant must be removed completely. Before re-jointing, the affected joint areas are to be treated with Maxisil Anti-Mildew Spray to remove existing fungal spores. Otherwise a new mould attack may again occur in the joints, despite the mould protection technology of the sealant.

Technical properties:

| | |
|---|---------------|
| Skin-forming time at 23 °C/50 % RAH [minutes] | ~ 15 |
| Curing in 24 hours at 23 °C/50 % RAH [mm] | ~ 2 - 3 |
| Processing temperature from/to [°C] | + 5 / + 35 |
| Viscosity at 23 °C | pasty, stable |
| Density at 23 °C according to ISO 1183-1 [g/cm ³] | ~ 1,0 |
| Shore-A-hardness according to ISO 868 | ~ 20 |
| Permissible movement capability [%] | 25 |
| Class according to ISO 11600 F | 25 |
| LM Stress expansion modulus at 100% according to ISO 37, S3A [N/mm ²] | ~0,3 |
| Tensile expansion according to ISO 37, S3A [%] | ~ 700 |
| Tensile strength according to ISO 37, S3A [N/mm ²] | ~ 1,4 |
| Temperature resistance from/to [°C] | - 40 / + 180 |
| Extrusion rate according to ISO 8394-1 [g/min.] | ~ 130 - 170 |
| Shrinkage of volume according to ISO 10563 [%] | <10 |
| Shelf life at 23 °C/50 % RAH for cartridge/foil bag [months] | 15 |
| VOC declaration according to 1999/13/EC [g/L] | <10% |

This data is not suitable for the issue of specifications. Please contact Maxisil before issuing specifications.

Pretreatment:

All adherent surfaces must be clean of any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances, which could affect adhesion, should be removed.

Cleaning of non-porous substrates: Apply Maxisil Cleaner (airing time approx. 1 minute) using a clean, lint-free cotton cloth.

Cleaning porous substrates: Clean surfaces with steel-wire brush or a grinding disk to remove loose particles.

The adherent surfaces have to be clean, free from fat, dry and sustainable.

Primer Table:

The demands on elastic sealants and bonds depend on the respective exterior influences and substrates. Extreme fluctuations of temperature, tensile or shear forces, repeated contact with water etc. demand high bond strengths. In such cases it is advisable to apply primer according to the recommendations of our technical department in order to achieve maximum bond strength.

| Substrate | Recommended Primer |
|--|--------------------|
| Acrylic glass/PMMA (Plexiglas®, etc.) | - |
| Acrylic bathroom surfaces (e. g. bath tubs) | + / 1101 |
| Aluminium | + |
| Aluminium anodized | 1216 |
| Aluminium powder-coated | 1101 / T |
| Aluminium powder-coated (contains Teflon) | T |
| Concrete | 1105 |
| Concrete block | - |
| Lead | - |
| Chrome | 1216 |
| Stainless steel | 1216 |
| Iron | - |
| Epoxy resin coating | T |
| Fibre cement | 1105 |
| Glass | + / 1226 |
| Wood, painted (solvent systems) | + |
| Wood, painted (aqueous systems) | + / 1216 |
| Wood, varnished (solvent systems) | 1216 |
| Wood, varnished (aqueous systems) | 1215 / 1226 |
| Wood, untreated | 1215 / 1226 (1) |
| Ceramic, glazed | + |
| Ceramics, unglazed | + |
| Plastic profiles (unplasticized, e. g. Vinnolit) | 1217 / 1227 |
| Copper | - |
| Melamine formaldehyde resins (e. g. Resopal®) | 1216 |
| Brass | - |
| Natural stone / marble | - Maxisil N |
| Polyester | + |
| Polypropylene | - |
| Cellular concrete | 1105 |
| Plaster | 1105 |
| PVC unplasticized | 1217 / 1227 |
| PVC-soft-foils | 1217 |
| Sandstone | - Maxisil N |
| Tinplate | - |
| Zinc, galvanized iron | - |

1) Upon high exposure to water please contact our Technical Department.

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

Application information: Due to many possible influences during and after application, we recommend to first conduct a trial on the substrate and bonding area.

Our technical department can provide access to laboratory facilities and application support

When using a primer, apply to the substrate and allow to dry for approx 2 hours. Once primer is dry, apply Maxisil M to the substrate. Apply with an even method, avoiding air entrapment. For best results the sealant should be smoothed with a smoothing agent and Applicator. For best results use Maxisil Smoothtex A (part number RDX2000) and Maxisil Applicator (part number RDXA3000).

For backfilling of joints please use a closed cell PE foam rod.

For best results use Maxisil Smoothtex A Smoothing Agent (Diluted 2:1). Wash / remove excess agent immediately from the joint area.. We do not recommend the use of usual smoothing agents (e. g. dishwashing detergents etc.) as they have a high probability of staining substrates and inducing fungus spores into the joint area.

We recommend to store our products unopened and in original packaging, in a dry cool place (< 60 % RAH) at temperatures of +15 °C up to +25 °C. If the products are stored and / or transported at higher temperatures / humidity for long periods (some weeks), shelf life / material performance can be reduced, causing a change in material characteristics.

Packaging:

| | 310 ml cartridge | 400 ml aluminium foil bag | 580 ml aluminium foil bag |
|-------------------|------------------|---------------------------|---------------------------|
| All colours | Maxisil A | on request | on request |
| Packaging unit | 20 | 20 | 20 |
| Pieces per pallet | 1200 | 900 | 600 |

Safety precautions: Please observe the material safety data sheet.

Disposal: Please refer to the material safety data sheet.

Warranty information: All information in this publication is based on our current technical knowledge and experience. However, since conditions and methods of use and application of our products are beyond our control, we suggest that you test the product before use. Information given in this technical data sheet and explanations of Maxisil in connection with this technical data sheet (e.g. service description, reference to DIN regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of Maxisil to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and conclusively. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product, adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and if necessary resolving it. For the rest, our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage; robertsdesigns.com.au