

## TECHNICAL DATA

# Geocel® HM Silicone

## High Modulus Silicone Sealant

### Acetoxy Silicone Sealant



Geocel® HM Silicone Sealant is a one-part sealant, which has been specifically developed for use by the sealant contractor. It has good adhesion to a range of non-porous substrates including glass, aluminum and painted wood. Geocel® HM Silicone Sealant is suitable for use in sanitary applications.

#### BENEFITS

- Specially developed for use by sealant contractors
- High modulus, high elasticity
- Fungus and mildew resistant
- Resistant to ozone, ultra-violet radiation and temperature extremes.

#### APPLICATION

Ensure that surfaces to be sealed are clean, dry, sound and free from frost. Clean all joints of release agents, water repellents, laitance, dust, dirt, old sealants and other contaminants, which could impair adhesion. Non-porous surfaces should be cleaned and degreased by wiping with a suitable solvent such as Geocel Surface Cleaner on an oil and lint-free cloth before application of the sealant. Porous substrates should be mechanically cleaned using a steel brush, sanding disc or any similar means.

**Note:** When using any solvent, always provide adequate ventilation. Avoid heat, sparks and open flames. Use solvent resistant gloves. Observe and follow all precautions listed on solvent container label.

#### LIMITATIONS

Do not use Geocel® HM Silicone Sealant on bituminous substrates, substrates based on natural rubber, chloroprene or EPDM or on building materials, which might bleed oils, plasticisers or solvents. Do not use Geocel® HM Silicone Sealant in a totally confined space because the sealant requires atmospheric moisture to cure. Because acetic acid is released during curing, it can corrode mirror silver and sensitive metals such as copper, brass and lead. Geocel® HM Silicone sealant is not recommended for use on submerged joints, sensitive stones or in joints where physical abuse or abrasion are likely to occur. Geocel® HM Silicone Sealant is not suitable for food contact applications.

It is recommended that Geocel® HM Silicone Sealant is not applied to surfaces that are below 5°C (41°F) as it is impossible to guarantee a dry surface at these temperatures.

#### SPECIFICATIONS

ISO 9001

ISO 14001

ISO 11600 – F 20LM

#### TECHNICAL DATA:

Colours	Clear, White
Skin Time	13 Minutes
Cure Rate	3mm per 24Hr
Application Temperature	+5°C – +40°C
Service Temperature	-40°C – +140°C
Movement Accommodation Factor	+/- 20
Shore A Hardness	12
Specific Gravity	1.05
Tensile Strength	2.27 MPa
Elongation	1650%

**Specification writers:** These values are not intended for use in preparing specifications. Please contact your local Geocel® Sales Representative prior to writing specifications on this product.

#### STORAGE LIFE

12 months when stored at 23°C

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### JOINT DESIGN

When designing joints using Geocel® HM, the minimum width should be 6mm. For joints between 6mm-12mm wide, a seal depth of 6mm is required. For joints above 12mm wide, a width to depth ratio of 2:1 should be used up to a maximum depth of 12mm. In situations where fillet joints are needed, a minimum of 6mm sealant bite to each substrate is recommended.

### PRIMING

Primer is not required on most common non-porous substrates. However, a test placement prior to general use is always recommended. For specific advice, please refer to the Geocel technical department.

### BACK UP MATERIALS

Closed cell polyethylene backer rod is recommended as a back up material to provide back pressure and avoid three-sided adhesion that limits sealant movement capability. Low tack polyethylene tape should be used in joints too shallow to allow the use of backer rod.

### FINISHING

The joint should be tooled within 5 minutes of application to ensure good contact between the sealant and the substrate. Tooling of the sealant also gives a smooth, professional finish.

### HEALTH AND SAFETY

Health and Safety data sheets available on request.

### PACKAGING

Geocel® HM Silicone Sealant is available in cartridges packed in boxes of 12.

### TECHNICAL SERVICE

For further technical information, advice on suitability for specific applications, or detailed Health and Safety information, contact **Geocel®** Technical Service.

- Tel: 0114 240 9310
- Email: [hpcstechnical@sherwin.com](mailto:hpcstechnical@sherwin.com)

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