

OCI®/Orgasil 103 Construction Silicone Sealant



Technical Data Sheet

Physical Data

Unvulcanized Rubber

| | |
|---|------------------------|
| Density at 25 °C | 1.03 g/cm ³ |
| Consistency | 0.1" |
| Tack-Free Time | < 1 hour |
| Skin-forming time (at 27 °C/ 70% r.h) | 12-13 mins |
| Cure Time (to 3/8" @ 27 °C and 50% r.h) | 5-7 days |

Vulcanized Rubber

| | |
|---|------------------------|
| Specific gravity at 25 °C | 1.04 g/cm ³ |
| Tensile strength (ASTM D412) | 320 psi |
| Dynamic Joint Movement (continue extension & compression 1/8" per hour) | +/- 25% |
| Hardness Shore A (ASTMD2240) | 23 – 28 |
| Peel strength (ASTM C794) | 20ppi |
| Application Temperature Range | -37°C to +60°C |
| Temperature resistance | -62°C to +204°C |

Characteristics

- Orgasil 103 is a one part acetic cure Construction Silicone Sealant.
- Orgasil 103 sealant is a room temperature vulcanising, acetic acid curing silicone with outstanding adhesive strength ,weatherability and elasticity for general glazing and sealing application.
- It is ready to use, solvent-free, long shelf life, low shrinkage during vulcanization.

Application

- Orgasil 103 is suitable for sealing, bonding, repairing and mending of glass and window construction double glazing in window, aquarium, shower screens , sanitary, air-conditioning, ventilators, bedding of marine hardware, etc.
- Orgasil 103 exhibits an excellent adhesion to glass, tiles, ceramics, aluminum, fiberglass, non-oily woods, painted surfaces, plastic e.g. epoxies, polyester, polyacrylate and other non porous surfaces.

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Surface Preparation

- The silicone sealant should be applied at a thickness not to exceed 6mm (1/4 in) from an exposed edge.
- The recommended minimum joint dimension is 1/4" x 1/4" and the maximum joint dimension is 1" x 3/8" ..
- Ensure all surfaces that will be in contact with the sealant must be clean, dry, free of dust, dirt, rust, oil and other contaminants.
- Nonporous substrates should be clean with solvent and wipe dry immediately with cloth before the solvent evaporates from the surface. Porous surfaces should be roughen with a stiff-bristled brush, rubbed down or sandblasted.
- Cut off tip nozzle and cartridge. Screw n nozzle to cartridge.
- Fit into caulking gun, apply on surface in steady flow.
- If required, smooth and shape sealant with spatula dipped in mild detergent.
- To remove excess uncured sealant with a mineral turpentine soaked cloth. Fully cured excess sealant can be removed by trimming with a sharp knife.
- Content fully cures in 48 hours.

For Best Results

- To obtain a smooth and neat finish, apply masking tape and remove before sealant cures.
- Paint surfaces completely before applying sealant.
- Before processing, observe the 'restriction on use' instructions in our product safety data sheets.

Safety Precaution

- Ensure good ventilation if used indoors.
- Contact of unvulcanised silicone sealant with eyes and mucous membranes must be avoided as this will cause irritation.
- Prolonged contact with eyes, flush with water and consult physician.
- Keep out of reach of children.
- Additional information is contained in our material safety data sheets available on request.
- Maximum recommended pressure for air-operated guns with caulking cartridges is 45 psi (3.2kgs/cm³).

Storage

- Store in dry and cool place below +30 ° C.
- Use within 12 months from the date of purchase.

Every endeavor has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.