

CONTRACTOR SILICONE

ACETOXY SILICONE SEALANT TECHNICAL DATA SHEET



PRODUCT FEATURES

- Great Adhesion
- Fast Curing
- Non Sag
- Smooth Consistency
- Economical
- Excellent Weather Resistance
- Long Life Reliability
- Mildew Resistant
- Low Maintenance



Product Description

Contractor Grade Silicone is a non-slumping, one-part moisture curing acetoxy silicone sealant suitable for a wide range of general sealing and general glazing applications. It is easy to apply and offers excellent adhesion to a variety of substrates such as glass, glazed ceramic tiles, sheet metal ductwork, vinyl, aluminum, wood, and cement board siding and as well many other common non-porous building materials. **Contractor Grade Silicone** provides good resistance to weathering, ultraviolet radiation, vibration, moisture, ozone, airborne pollutants, many cleaning detergents and many solvents. **Contractor Grade Silicone** provides long life reliability and low maintenance at temperatures from -49°F to + 302 °F.

Physical Properties

Contractor Grade Silicone is an economical paste-like material which cures to a tough rubbery solid when exposed to moisture in the air.

Parameter	Units	Value
As supplied – tested at 25°C, 50% Relative Humidity		
Flow, Sag or Slump	mm	Nil
Working Time	min	10
Surface Cure Time	min	25
Specific Gravity	g/ml	0.97
As cured – tested after 7 days at 25°C, 50% Relative Humidity		
Hardness, Shore A	Points	17
Ultimate Tensile Strength	MPa	2.0
Ultimate Elongation	%	570
Modulus at 100%	MPa	0.4
Movement Capability	%	±25

Application Procedures

1. Correct joint design reduces stress on the sealant, enables optimum movement capability, assists sealant application and reduces the potential for sealant splitting and voiding. Guidelines are: Minimum joint width of 6mm. Minimum joint depth of 6mm. For larger joints the width of the joint should be greater than the sealant depth. Avoid 3 sided adhesion; Apply backer rod or bond breaker tape in the base of the joint to ensure the sealant is only bonded to the sides of the joint.

2. Clean all joint surfaces. Surfaces must be clean, dry and sound. Remove loose debris and/or old sealant.

General recommendations are:

(a) For non-porous surfaces:

Solvent wipe the joint surfaces using a non-oily solvent such as methyl ethyl ketone or mineral spirits on a clean white lint-free cloth to remove any oils and contaminants. Immediately wipe with a second dry cloth to remove any traces of solvent and contamination.

(b) Priming:

A primer may be needed for optimum adhesion to some substrates based on testing conducted by the end user.

3. Install backing material. Backer rod (eg. closed cell polyethylene type or open cell polyurethane foam type) or similar material (eg. low tack polyethylene tape for shallow joints) can be used in the base of the joint to control sealant depth and avoid 3 sided adhesion by preventing adhesion to the base of the joint.

Application Procedures Continued...

- Mask adjacent surfaces with masking tape. Masking will ensure a clean, neat appearance and reduce clean up by protecting surrounding areas from excess sealant.
- Cut tube cartridge nozzle to desired bead size. Apply sealant into the base of the joint so that it completely fills the joint, wetting both sides.
- Tool joint/remove masking tape. Tool the surface of the joint before the sealant forms a skin to provide a smooth even finish and to ensure the sealant wets the sides of the joint. Do not use soap or water as tooling aids. Remove masking tape immediately after tooling and before the sealant skins. After a skin has formed, do not disturb the joint for 48 hours. Avoid contact with cleaning agents and solvents (eg. bleach) whilst sealant is curing. Uncured sealant can best be cleaned from tools using commercial solvents such as xylene, toluene, or mineral spirits. Observe proper precautions when using flammable solvents. On porous surfaces allow sealant to cure before removing by abrasion. Cured sealant is not soluble and must be trimmed with a blade. Avoid undercutting the seals.

Limitations:

Do not use for structural glazing.

Not recommended for continuous water immersion applications.

Do not use on materials where the sealant and/or the cure by-product (acetic acid) may cause corrosion, discoloration or affect their appearance (eg. galvanized iron, copper, brass, zinc coated steel, concrete, brick, limestone, marble and similar porous stone finishes).

Not recommended for use on polycarbonate plastic sheeting.

Not recommended for use in below ground joints or where abrasion and physical abuse are encountered.

Do not use in the sealing or construction of aquariums.

Paint will not adhere well to the sealant (paint before applying sealant).

Do not apply in contact with materials that bleed plasticizers, solvents or release by-products that may inhibit cure, effect adhesion or discolor the sealant (eg. Bituminous adhesives and coatings).

Do not clean or treat the sealant with materials, solvents or cleaning agents that may effect or discolor the sealant, particularly during sealant cure.

Do not apply at temperatures below -5°C .

Do not use as a penetration firestop sealing system.

Do not apply to surfaces in direct contact with food or drinking water.

Do not use in direct contact on the reflective coatings on mirrors.

Not for medical or pharmaceutical use.

Do not use in the manufacture of Insulated Glass (IG) Units.

Sealant cures by contact with moisture vapor in the air. Not recommended for use in closed or confined areas where sealant cure may be inhibited by lack of air.

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Shelf Life and Storage:

When stored in the original unopened container at or below 90F, and above freezing, **100% Silicone** has a shelf life of 12 months from the date of shipment. Containers should always be kept sealed when not in use. Ensure stock is rotated. **Keep away from children!!!**

Packaging

Part#:	Description	Pack
99912	Contractor Grade Silicone 10.3 oz tube- Clear	12 tubes / Case
99914	Contractor Grade Silicone 10.3 oz tube- Black	12 tubes / Case
99916	Contractor Grade Silicone 10.3 oz tube- White	12 tubes / Case

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