

SILICONE EXTRA 3000

PRODUCT DESCRIPTION:

SILICONE EXTRA 3000 is a single component acetic cure silicone sealant which vulcanizes on exposure to moisture in the air at room temperature, to produce a flexible elastomeric sealant. It is suitable for all common construction and glazing application. It is easy to apply and offers excellent adhesion to a variety of nonporous substrates such as glass, glazed ceramic tiles and aluminum. It is resistant to ozone, ultraviolet radiation and temperature extremes.

FEATURES:

- Easy – to – use one component type.
- Cures at room temperature at ambient humidity conditions.
- Outstanding adhesiveness to many non-porous substrates, including Glass, GlazedCeramics, Aluminum, Masonry, some Plastics' etc.
- Excellent resistance to weathering, moisture, ozone, UV, temperature Extremesetc...
- Applied in a temperature range from – 4 °C to 40 °C
- Don't apply on a wet surface or in an airtight place

APPLICATIONS:

- General purpose sealing and bonding
- Gap filling
- Sealing of gaps between door and window frames
Aluminum, steel, painted metal, and plastics



TYPICAL PROPERTIES:

(Items)	SILICONE EXTRA 3000
Color Standard colors	Clear, White, Black
Appearance MM	don't drip
Specific cure time @ 25°C Min	MAX 12
Cure rate, mm/day	2
g/ml	0.92
Specific Gravity	
Shore A	22
Durometer hardness	
MECHANICAL PROPERTIES, 2mm thick sealant	
MPa	1.2
Ultimate tensile strength	
%	Approx. 500
Elongation at Break,	
%	±10
Movement capability	

USAGE INSTRUCTIONS:

SILICONE EXTRA 3000 is supplied as a ready to use product. The product can be used with normal caulking guns. Surface must be clean, dry and should be free from oil, grease, dust and frost. After suitable joint preparation and masking, attach the nozzle to cartridge, cut to required dimension and the sealant is gunned into gap continuously. The non-sag paste consistency of the material makes it very friendly to use, easy to tool with spatula. The product cures at room temperature when it is exposed to moisture and the curing happens from surface to inside the sealant. The skin formation happens within a maximum period of 10 minutes. Any necessary tooling has to be completed within 5 minutes of application. If in case masking tape is used to mark off the area, it has to be removed before skin is formed. Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but may be necessary for optimal sealing of certain porous surfaces. A test placement is always recommended. Apply **SILICONE EXTRA 3000** Silicone Sealant in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 5 minutes), tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.

Cure time:

The time required for curing is affected by atmospheric conditions like relative humidity and temperature, degree of confinement and thickness of the sealant. The product cures at a rate of 3mm per day @ 25°C and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness.

The application in confined spaces generally lengthens the curing process. It is possible that in total confinement the curing will not be complete and this will result in the softening of the sealant in elevated temperatures. Metal to metal bonds should not overlap more than one inch. Every application involving confinement while curing must be thoroughly tested before commercialization. Vinegar like odour given off during curing is due to the acetic acid liberated as a part of curing reaction and it disappears as the curing progresses. Once the curing is complete, further odour will not be detectable.

CAUTION:

DIRECT CONTACT WITH UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVER EXPOSURE TO VAPOUR MAY IRRITATE NOSE AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water. Sealant liberates acetic acid on curing. KEEP OUT OF REACH OF CHILDREN. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

STORAGE AND SHELF LIFE:

Store in cool dry place, not over 25°C away from direct sun light and source of heat. **SILICONE EXTRA 3000** has a shelf life of 12 months from the date of manufacturing if stored in original Unopened container. In places where high heat and humidity are present, special precautions must be taken. Store product in a covered, well ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity condition may reduce shelf life by around 30%. Follow First in First Out strictly. Cartons should always be stacked upright with nozzle tip pointing upwards. Don't stack cartons on their sides. Never stack cartons more than 8 high. *Don't store within one meter of roofing of the ware house or storage building*