



**Dynatex®**

**Technical Datasheet**

**DYNA 47101**

*Revised Date: June 2011*

**Description**

Dynatex DynaCopper Silicone Gasket Maker is a single component, room temperature vulcanizing, Gasketing compound designed to provide reliable “formed-in-place” gaskets for mechanical assemblies. Material is a non-slumping paste that cures to a tough, rubbery solid at room temperature on exposure to moisture in the air. The product resists aging, weathering and thermal cycling without hardening, shrinking or cracking. Designed to provide increased oil resistance, good adhesion and flexibility, sensor safe and noncorrosive.

**Applications**

- Valve Covers
- Transmission Pans
- Oil Pumps Flanges
- Makes any gasket instantly
- Timing gear covers
- Differential covers
- Improved oil resistance
- Sensor safe
- Non-Corrosive
- Good adhesion and flexibility
- Replaces most gaskets
- Non-Flammable
- Non-toxic
- Low odour

**Instructions for Use**

- 1) Remove all previous material from mating surfaces
- 2) Clean and dry all surfaces with a residue-free solvent.
- 3) Dynatex DynaCopper Silicone Gasket Maker is supplied ready to use. Cut nozzle to desired bead size, 1/16” to ¼” in diameter
- 4) Remove cap, puncture tube or cartridge seal and attached extension nozzle
- 5) Apply a continuous and even bead of silicone to one surface, first taking the internal areas of the gasket configuration, then all surrounding boltholes. The paste-like consistency makes it easy to work; a spatula or wooden paddle can be used to tool the surface.

**Typical Properties**

Type	Oxime Silicone, one part, non-slumping silicone paste
Cure	Cures at room temperature by reaction with moisture in the air
Operating Temperature	-65°C to 371°C
Primary Uses	Bonding, sealing, potting, encapsulating and protective coating operations where parts must perform at high temperatures

**ACTIVE & INACTIVE METAL TABLE**

<b>Super Active</b> Very Fast Cure	<b>Active</b> Fast Cure	<b>Inactive</b> Slow Cure	<b>Passive</b> Primer Necessary
Brass, Copper, Magnesium	Iron, Steel, Nickel, Aluminium	Stainless Steel, Titanium, Zinc, Anodized Aluminium, Galvanised Steel	Ceramics, Glass, Plastics, Painted Finishes



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**As Supplied**

Colours	Copper
Flow/Slump	NIL
Extrusion Rate (1/8" orifice, 90psi)	375 g/min

**Cure Characteristics- exposure to air 25°C and 50% RH**

Skin-over Time	16 Minutes
Cure Time (1/8" Thickness)	24 hours

**As Cured- after 72 hours at 25°C and 50% RH**

Durometer, Shore A	30 points
Tensile Strength	210 psi
Elongation	300%
Unprimed Adhesion (most substrates*)	Good

\*Optimum adhesion is obtained in 7 to 10 days curing time.

**Cure Time**

Dynatex DynaCopper Silicone Gasket Maker cures on exposure to moisture in the air. Material dries tack free in two hours and fully cured in 24 hours. Cure time will vary with temperature, humidity and gap.

**Clean Up**

- 1) Allow excess material to extend beyond the extension nozzle to cure, sealing and protecting the remaining product from moisture. For reuse, simply remove the cured plug from the tip
- 2) Remove uncured material from parts and hand tools with a dry cloth or paper towel.
- 3) Clean Hands with dry cloth or paper towel
- 4)

**Presentation**

Dynatex DynaCopper Silicone Gasket Maker available in a 108g tube.

**Storage**

When stored in original unopened container at or below 32°C, 47101 have a shelf life of 12 months from date of shipment.

**Conversions**

- $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
- $\text{N/mm} \times 5.71 = \text{lb/in}$
- $\text{MPa} \times 145 = \text{psi}$
- $\text{N/mm}^2 \times 145 = \text{psi}$
- $\text{N} \times 0.225 = \text{lb}$
- $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
- $\text{N}\cdot\text{mm} \times 0.738 = \text{lb}\cdot\text{ft}$
- $\text{mPa}\cdot\text{s} = \text{cP}$

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