



Dynatex®

Technical Datasheet

DYNA 47200

Revised Date: June 2011

Description

DynaBlack 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 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 non-corrosive.

Applications & Characteristics

- Valve Covers
- Transmission pans
- Oil Pump Flanges
- Makes any gasket instantly
- Timing Gear Covers
- Differential Covers
- Improved Oil Resistance
- Sensor Safe
- Non-Corrosive
- Good Adhesion & Flexibility
- Replaces most gaskets
- Non-Flammable
- Non-Toxic
- Low Odour

Instructions for Use

1. Remove all previous material from mating surfaces.
2. Clean & Dry all Surfaces with a residue-free solvent.
3. DynaBlack 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	Cure at room temperature by reaction with moisture in the air.
Operating Temperature	-65°C to 329°C
Primary Uses	Bonding, Sealing, potting, encapsulating and protective coating where parts must perform at high temperatures

ACTIVE & INACTIVE METAL TABLE

Super Active Very Fast Cure	Active Fast Cure	Inactive Slow Cure	Passive 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	Black
Flow/Slump	NIL
Extrusion Rate (1/8" orifice, 90 psi)	375g/min

Cure Characteristics – exposure to air, 25°C and 50% RH

Skin-over time	16-20 min
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 Substrate*)	Good

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

Cure time

DynaBlack Silicone Gasket Maker cures on exposure to moisture in the air. Material dries tack free in two hours and fully cures 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. Clean Hands with dry cloth or paper towel

Presentation

DynaBlack Silicone Gasket Maker is available in 108g Tubes.

Storage

When stored in original unopened container at or below 32°C, DynaBlack Silicone Gasket Maker has 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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