



**Dynatex®**

**Technical Datasheet**

**DYNA 5699**

*Revised Date: June 2011*

**Description**

5699 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 ageing, 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. 5699 is supplied ready to use. Cut nozzle to desired bead size, 1/16” to 1/4” 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 temperate 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 |
| Agency Approvals      | ASTM D2240      ASTM D 412<br>ASTM D 746                                                                      |

**ACTIVE & INACTIVE METAL TABLE**

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



**Dynatex®**

**Technical Datasheet**

**DYNA 5699**

*Revised Date: June 2011*

**As Supplied**

|                                       |          |
|---------------------------------------|----------|
| Colours                               | Grey     |
| 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**

5699 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.
- 3) Clean Hands with dry cloth or paper towel

**Storage**

When stored in original unopened container at or below 32°C, 5699 has a shelf life of 12 months from date of shipment.

**Presentation**

5699 is available in 300g cartridge.

**Conversions**

- (°C x 1.8)+32 = °F
- N/mm x 5.71 = lb/in
- MPa x 145 = psi
- N/mm<sup>2</sup> x 145 = psi
- N x 0.225 = lb
- N·m x 8.851 = lb·in
- N·mm x 0.738 = lb·ft
- mPa·s = cP

**ACTIVE & INACTIVE METAL TABLE**

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

The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. Holdtite Australia and its agents cannot assume liability or responsibility for results obtained in the use of its products by persons whose methods are outside or beyond our control. It is the users responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the users responsibility to observe and adopt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.