

# 3M Industrial Adhesive 4799

Technical Data

March, 2015

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## Product Description

3M™ Industrial Adhesive 4799 can be used to bond most EPDM rubber, sponge rubber, rubber sheeting, felt, canvas, linoleum and other lightweight materials to many metals, woods, concrete and plastics.

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## Typical Physical Properties

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

|  |  |
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| <b>Viscosity (approx.)<br/>Brookfield Viscometer</b> | 7,500-18,000 cps.<br>RVF #6 sp. @ 20 rpm   |
| <b>Solids (by wt.)</b>                               | 28-35%                                     |
| <b>Base</b>  | SBR  |
| <b>Color</b>   | Black                                      |
| <b>Net Weight (approx.)</b>                          | 6.6 - 7.0 lbs./gal.                        |
| <b>Flash Point (closed cup)</b>                      | -14°F (-26°C)                              |
| <b>Solvent</b>                                       | Petroleum Distillate, n-hexane and toluene |

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## Features

- Quick drying adhesive with fast strength buildup.
- Provides low soak-in on most porous substrate.
- Dries to a flexible, water resistant bond.

**Handling/Application Information**

**Directions for Use**

- 1. Surface Preparation:** Surfaces to be bonded must be clean, dry and dust free. Wiping with a solvent such as methyl ethyl ketone (MEK)\* will aid in removing oil and dirt.
  - 2. Application Temperature:** For best results the temperature of the adhesive and the surfaces being bonded must be at least 65°F (18°C).
  - 3. Application:** Stir or agitate well before using.
    - Porous Surface(s):** Brush a uniform, generous coat of adhesive on the least porous surface to be bonded. Assemble the materials immediately with sufficient pressure to ensure contact.
    - Non-Porous Surface(s):** Apply a uniform coat of adhesive to each surface. Allow adhesive to dry until it is tacky, but does not transfer. Assemble materials with sufficient pressure to ensure contact.
  - 4. Cleanup:** Excess adhesive may be removed with a solvent such as methyl ethyl ketone (MEK).\*
- \*Note:** When using solvents, extinguish all sources of ignition in the area and follow the manufacturer's precautions and directions for use when handling such materials.

**Application Equipment Suggestions**

**Note: Appropriate application equipment can enhance adhesive performance. The user is responsible for evaluating application equipment in light of the user's particular purpose and method of application.**

- 1. Pumping:** Use a 5:1 ratio double acting, ball check pump with a 3 inch diameter air motor. All packings and glands in contact with the adhesive should be PTFE coated.
- 2. Hoses:** Material hoses should be nylon lined with a working pressure of 500 psi or greater.
- 3. Brushes:** Brushes designed for use with oil based paint may be used.

**Typical Adhesive Performance Characteristics**

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| <b>180° PEEL STRENGTH – Canvas/Steel</b> |                       |                                   |
|--|-----------------------|-----------------------------------|
| <b>Time<br/>@ 75°F (24°C)</b>            | <b>Test<br/>Temp.</b> | <b>Value<br/>(lbs./in. width)</b> |
| 1 day                                    | 75°F (24°C)           | 15.5                              |
| 3 days                                   | 75°F (24°C)           | 22                                |
| 5 days                                   | 75°F (24°C)           | 25                                |
| 7 days                                   | 75°F (24°C)           | 25.5                              |
| 2 wk.                                    | 75°F (24°C)           | 27.5                              |
| 3 wk.                                    | 75°F (24°C)           | 28                                |
| after 3 wk.                              | -30°F (-34°C)         | 14                                |
| after 3 wk.                              | 150°F (66°C)          | 8.5                               |
| after 3 wk.                              | 180°F (82°C)          | 5                                 |

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**Storage** Store product at 60-80°F (16-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower temperatures cause increased viscosity of a temporary nature. Rotate stock on a “first in-first out” basis.

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**Shelf Life** When stored at the recommended conditions and kept in the original, unopened container, this product has a shelf life of one year from date of shipment.

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**Precautionary Information** Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.

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**Technical Information** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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**Product Use** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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