



BOSS® 888 NEUTRAL RTV SILICONE

TECHNICAL DATA

| Uncured | |
|---------------------------------------|-------------------|
| Specific Gravity | 1.02 ± 0.02(g/ml) |
| Colors | Clear |
| Flow, Sag or Slump | NIL |
| Skin Formation Time* (22°C / 50% R.H) | 8-15min. |
| Curing Rate* (22°C / 50% R.H) | 3mm / 24 hours |
| Cured-Physical | |
| Elongation | >700% |
| Durometer Hardness, Shore A, points | 20-25 |
| Tensile Strength, N/mm ² | 1.8-2.4 |
| Maximum Allowed Distortion | 25% |
| Service Temperature | -40°C to 150°C |

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

** This information relates to fully cured product.

Description

BOSS® 888 Neutral RTV Silicone Gasket maker is a paste-like, one-component material, which cures to a tough, rubbery solid upon exposure to moisture in the air. It is formulated for gasket making applications. It is sensor-safe and manufactured to meet OEM specifications. BOSS 888 makes instant, leak-proof gaskets for all engines, drive train equipment, and related components. It resists oil, water, antifreeze, and transmission fluid and provides exceptional leak control and torque retention.

Benefits

- Oxygen Sensor Safe
- Low volatility
- Makes instant leak-proof gaskets
- Resists oil, water, anti-freeze and transmission fluid
- Remains flexible
- Makes gaskets of any size or shape instantly

Typical Application

- Oil pans
- Transmission pans
- Rear-end housing
- Timing chain covers
- Thermostat housings
- Oil pump flanges and more

Cure Time

Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. Sections up to 1/8- inch thick become rubbery solids in about 24 hours at room temperature at 20 percent relative humidity. Less moisture content reduces cure time slightly. In 24 hours, sections up to 1/8-inch thick cure to a rubber with a Shore A Durometer Hardness of about 20 points. After 3 days at room temperature, this durometer hardness levels off to about 24 points.



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In applications where BOSS® 888 Neutral RTV Silicone Gasket Maker may be partially or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement.

It is possible that with absolute confinement cure will not be completed. The result is the softening of the sealant at elevated temperatures. Metal-to-metal bonds should not overlap more than one inch. Every application involving confinement during cure should be thoroughly tested before commercialization. Curing time increases with the thickness of the sealant. A 1/2-inch cross section, for example, may require 3 or 4 days for complete solidification. However, the cure will have penetrated the outer 1/8-inch in about 24 hours. The cure progresses inward from the surface. At conditions of at least 75°F (24°C) and 50 percent relative humidity, the sealant forms a tack-free skin in 5-10 minutes. Tooling is not practical after this skin begins forming, and should be completed within 5-7 minutes of application, even though this may require alternate periods of applying and tooling. Likewise, if masking tape has been used to mark off an area, it should be removed before the tack-free skin forms.

Limitations

BOSS® 888 Neutral RTV Silicone Gasket Maker will corrode and will not adhere to copper, brass (and other copper-containing alloys), magnesium, zinc, galvanized metals (and other zinc-containing alloys).

BOSS® 888 Neutral RTV Silicone Gasket Maker has good resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics and is effective to -40°C. Fully cured Neutral RTV Silicone Gasket Maker can be used for temperatures up to 150°C.

Packaging

BOSS® 888 Neutral RTV Silicone Gasket Maker is available in 15 gms, 25gms, 100gms tube pack. Other sizes available upon request.

Storage and shelf life

When stored in original unopened container at or below 80°F (27°C), BOSS® 888 has a shelf life of 12 months from date of manufacturing. In countries where high heat and humidity are a factor, special precautions should be taken to store product in a covered, well-ventilated warehouse. Rotation of stock is also required in these harsh environments to reduce the risk of premature curing of the product. Containers should always be sealed when not in use. After a container has been opened and the entire contents have not been used, extrude 3/8" of material past nozzle opening. When ready to use, pull out cured plug. Sealant is ready to use.

Caution

DIRECT CONTACT OF UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVEREXPOSURE TO VAPOR MAY IRRITATE EYES, NOSE, AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. IN CASE OF EYE CONTACT, flush eyes with water for 15 minutes. Obtain medical attention. IN CASE OF SKIN CONTACT, remove from skin and flush with water. KEEP OUT OF THE REACH OF CHILDREN.

Users please read

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no



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warranties concerning the fitness or suitability for a particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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