

Novagard® 400 Series 400-590 Specification Data



DESCRIPTION

Novagard 400 Series 400-590 is a single-component, silicone sealant that will cure upon exposure to atmospheric moisture at room temperature to a rubber-like solid.

APPLICATIONS

Specially formulated to retain its physical properties even during service in extreme environmental conditions, Novagard 400 Series 400-590 is a smooth, black paste that is ideal for applications that require superior bond strength and moisture resistance. Designed primarily for industrial applications, Novagard 400 Series 400-590 is well suited to sealing and bonding applications within many arenas.

INSTALLATION

As with all single component materials, work life and cure times of Novagard 400 Series 400-590 are dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples prior to full scale production.

AVAILABILITY

Novagard 400 Series 400-590 is available in 5 gallon pails and 55 gallon drums.

STORAGE

Novagard 400 Series 400-590 may be stored in the original unopened containers at, or below, 100°F for up to one year.

PRECAUTIONS / LIMITATIONS

Consult and obey all applicable local, state, and federal regulations for disposal of solvent and silicone waste. For additional information consult product S.D.S.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides. Not recommended for surfaces that are to be painted.

In confined cure conditions, Novagard 400 Series 400-590 may discolor brass, copper, or other sensitive metals. It may stress craze molded polycarbonate.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Black Paste
Extrusion Rate	1/8" orifice @ 90 psi	20 gm/min minimum
Slump (Flow)	ASTM D2202	0.3" maximum
Skin Time	3/8" @ 50% RH & 77°F	15 minutes maximum
Through Cure	1/8" @ 50% RH & 77°F	24 hours maximum

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.25 – 1.55
Tensile Strength	ASTM D412	200 - 300 psi
Shore Hardness	ASTM D2240	40 minimum
Elongation	ASTM D412	200 – 300%
Chemical Resistance Gasoline Brake Fluid Antifreeze Wheel Cleaner		No Effect No Effect No Effect No Effect
Adhesion Chrome Plated Plastic Acrylic Coated Metal	ASTM D903 7 Days @ 75°F / 100% RH	20 pli minimum 20 pli minimum

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product, however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.