

Novagard® 400 Series 400-100 Specification Data



DESCRIPTION

Novagard 400 Series 400-100 is a single-component, oxime silicone sealant and/or adhesive. A non-flowable, paste product, Novagard 400 Series 400-100 presents an excellent balance between the rate of cure, adhesion, and physical properties. It has a lower odor than conventional acetoxo-cured silicones.

APPLICATIONS

Novagard 400 Series 400-100 functions as an adhesive sealant, which develops a bond to most common substrates without the use of a primer. This ready-to-use, single-component compound is typically used as an adhesive to bond dissimilar materials, as a sealant for creating formed-in-place gaskets, or for a multitude of other applications.

INSTALLATION

As with all single-component materials, the work life and cure times of Novagard 400 Series 400-100 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 400-100 is available in 5-gallon pails and 55-gallon drums.

STORAGE

Novagard 400 Series 400-100 has a shelf-life of eighteen (18) months from the date of manufacture, as indicated by the lot number when stored in the original, unopened container at, or below, 75°F (24°C).

PRECAUTIONS / LIMITATIONS

Consult and obey all applicable local, state, and federal regulations for the 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, 400 Series 400-100 may discolor brass, copper, or other sensitive metals. It may stress craze molded polycarbonate.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		White Paste
Skin Over Time	3/8" @ 50% RH & 77°F (25°C)	5 – 10 minutes
Extrusion Rate	1/8" orifice @ 50 psi	30 – 80 g/min

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.15 – 1.25
Through Cure (hours)	3/8" @ 50% RH & 77°F (25°C)	48
Viscosity (cPs)	Brookfield HB #7 @ 10 rpm	450,000 – 750,000
Adhesion (pli)	ASTM C794	
Glass		12 – 15
Aluminum		10 – 14
Lexan®		12 – 15
Hardness (Shore A)	ASTM D2240	25 ± 5
Tensile Strength (psi)	ASTM D412	170 – 220
Elongation (%)	ASTM D412	800 – 1,000
Tear Resistance (pli)	ASTM D624	30 – 35
Service Temperature		-40°F to 400°F (-40°C to 204°C)

*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 the 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.