NovaFlex® Metal Roof and Panel Adhesive Sealant Specification Data



DESCRIPTION

NovaFlex Metal Roof and Panel Adhesive Sealant is a non-corrosive, single-component, oxime-cured silicone sealant and/or adhesive.

APPLICATIONS

This product is a general-purpose compound, which is used most frequently as a seam sealant or joint filler in metal roof systems. NovaFlex Metal Roof and Panel Adhesive Sealant is a single-component, high-solid, low-odor material, which cures to a medium modulus, flexible, durable, rubber-like solid. NovaFlex Metal Roof and Panel Adhesive Sealant will develop primerless adhesion to most common construction substrates, and the neutral cure is compatible with most materials.

STANDARDS

Meets or exceeds the performance of characteristics of ASTM C-920, TT-S-001543A, and TT-S-230C. AAMA 803.3 (I), 805.2 C, 808.3.

VOC CONTENT

NovaFlex Metal Roof and Panel Adhesive Sealant (Type I, Unfilled) has a typical VOC Content of 32 g/l (3.16%). NovaFlex Metal Roof Adhesive Sealant (Type II, Filled) has a typical VOC Content of 27g/l (2.24%). 50-state VOC Compliant (<4%).

INSTALLATION

As with all single-component materials, the work life and cure times of NovaFlex Metal Roof and Panel Adhesive Sealant 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

NovaFlex Metal Roof and Panel Adhesive Sealant is available in 10-ounce cartridges, 20-ounce sausage packs, 5-gallon pails, and 55-gallon drums.

STORAGE

NovaFlex Metal Roof and Panel Adhesive Sealant has a shelf life of eighteen (18) months from the date of manufacture when stored in the original, unopened container at, or below, 75°F (24°C).

PRECAUTIONS

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

LIMITATIONS

Not recommended for surfaces that are to be painted. Not recommended for joints to be continuously submerged under water. Do not install if the surface temperature is below 0°F (-17 °C) or exceeds 120°F (49 °C).

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range Type I – Class 35	Performance Range Type II – Class 50
Appearance		Paste (Various Colors)	Paste (Various Colors)
Viscosity	Brookfield #7 @ 10 rpm	3,500 – 7,000 poises	4,500 – 8,000 poises
Extrusion Rate	1/8" Orifice @ 50 psi	30 – 80 grams/minute	30 – 80 grams/minute
Skin Over Time	3/8" @ 50% RH & 77°F	5 - 10 minutes	5 - 10 minutes
Through Cure	3/8" @ 50% RH & 77°F	48 hours (14 days for OEM window applications)	48 hours (14 days for OEM window applications)

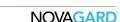
TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value Type I – Class 35	Typical Value Type II – Class 50
Specific Gravity		1.00 – 1.05	1.15 – 1.25
Tensile Strength	ASTM D412	140 – 200 psi	170 – 220 psi
Elongation	ASTM D412	500 – 650%	800 – 1,000%
Tear Resistance	ASTM D624	30 – 35 pli	30 – 35 pli
Hardness (Shore A)	ASTM D2240	20 +/- 5	25 +/- 5
Service Temperature		-40°F to 400°F (-40°C to 204°C)	-40°F to 400°F (-40°C to 204°C)
Joint Sealant Designation	ASTM C920	Type S Grade NS Class 35, see pg. 2 Use NT, M, G, A, O	Type S Grade NS Class 50, see pg. 2 Use NT, M, G, A, O
Adhesion Glass Aluminum Vinyl	ASTM D903	12 – 15 pli 10 – 14 pli 12 – 15 pli	12 – 15 pli 10 – 14 pli 12 – 15 pli

^{*}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.







NovaFlex Metal Roof Sealant Type Listing

TYPE I - UNFILLED CLASS 35	TYPE II - FILLED CLASS 50	
02/100/00	02/100 00	
MR118	MR100	MR3004
MR137	MR101	MR3008
MR150	MR102	MR3010
MR157	MR103	MR3220
MR158	MR105	MR3221
MR160	MR106	MR3225
MR173	MR107	MR3333
MR180	MR110	MR3401
MR182	MR113	MR3404
MR184	MR115	MR3412
MR193	MR117	MR3461
MR195	MR120	MR3482
MR196	MR121	MR3500
MR3201	MR122	MR3510
MR3421	MR124	MR3514
MR3903	MR125	MR3516
MR4103	MR126	MR3517
	MR127	MR3518
	MR131	MR3520
	MR132	MR3522
	MR134	MR3530
	MR146	MR3540
	MR155	MR3702
	MR156	MR3801
	MR165	MR3820
	MR168	MR3823
	MR169	MR3825
	MR171	MR3920
	MR177	MR3921
	MR178	
	MR188	
	MR189	
	MR190	
	MR191	
	MR194	
	MR197	

