

NovaFlex® Metal Roof and Panel Adhesive Sealant

Specification Data



DESCRIPTION

NovaFlex Metal Roof and Panel Adhesive Sealant is a non-corrosive, single-component, neutral cure 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 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.

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NovaFlex Metal Roof Sealant Type Listing

TYPE I - UNFILLED CLASS 35

MR118
MR137
MR150
MR157
MR158
MR160
MR173
MR180
MR182
MR184
MR193
MR195
MR196
MR3201
MR3421
MR3903
MR4103

TYPE II - FILLED CLASS 50

MR100
MR101
MR102
MR103
MR105
MR106
MR107
MR110
MR113
MR115
MR117
MR120
MR121
MR122
MR124
MR125
MR126
MR127
MR131
MR132
MR134
MR146
MR155
MR156
MR165
MR168
MR169
MR171
MR177
MR178
MR188
MR189
MR190
MR191
MR194
MR197

MR3004
MR3008
MR3010
MR3220
MR3221
MR3225
MR3333
MR3401
MR3404
MR3412
MR3461
MR3482
MR3500
MR3510
MR3514
MR3516
MR3517
MR3518
MR3520
MR3522
MR3530
MR3540
MR3702
MR3801
MR3820
MR3823
MR3825
MR3920
MR3921