

# 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 and Panel Adhesive Sealant Specification Data



## 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