

NovaFlex® Multi-Purpose Adhesive Sealant

Specification Data

DESCRIPTION

NovaFlex Multi-Purpose 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 within the window and door manufacturing industry as glazing or structural back-bedding. NovaFlex Multi-Purpose Adhesive Sealant is a single-component, high-solid, low-odor material, which cures to a medium modulus, flexible, durable rubber-like solid. NovaFlex Multi-Purpose 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 Multi-Purpose Adhesive Sealant (Type I, Unfilled) has typical VOC Content of 32 g/l (3.16%). NovaFlex Multi-Purpose Adhesive Sealant (Type II, Filled) has typical VOC Content of 27g/l (2.24%). 50-state VOC Compliant (<4%).

INSTALLATION

As with all single component materials, work life and cure times of NovaFlex Multi-Purpose Adhesive Sealant is 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 Multi-Purpose Adhesive Sealant is available in 10 ounce cartridges, 20 ounce sausage packs, 5 gallon pails, and 55 gallon drums.

STORAGE

NovaFlex Multi-Purpose 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.

PRECAUTIONS

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

LIMITATIONS

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

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 – 1000%
Tear Resistance	ASTM D624	30 – 35 pli	30 – 35 pli
Shore Hardness	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 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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TYPE LISTING

TYPE I - UNFILLED CLASS 35

MX129
MX137
MX150
MX151
MX154
MX157
MX162
MX164
MX166
MX170
MX175
MX176
MX179
MX180
MX182
MX184
MX185
MX186
MX187
MX192
MX193
MX195
MX196
MX3205
MX3250
MX3844
MX3880
MX3904
MX3907
MX3910
MX4103

TYPE II - FILLED CLASS 50

MX100	MX173	MX3324	MX3546
MX101	MX174	MX3329	MX3547
MX104	MX178	MX3333	MX3548
MX105	MX181	MX3344	MX3551
MX106	MX183	MX3345	MX3565
MX107	MX191	MX3350	MX3585
MX110	MX194	MX3380	MX3595
MX111	MX197	MX3385	MX3627
MX114	MX198	MX3405	MX3680
MX115	MX199	MX3406	MX3702
MX117	MX3004	MX3407	MX3705
MX120	MX3030	MX3409	MX3706
MX121	MX3203	MX3410	MX3709
MX122	MX3204	MX3412	MX3720
MX123	MX3206	MX3420	MX3723
MX126	MX3210	MX3422	MX3725
MX128	MX3211	MX3425	MX3727
MX130	MX3217	MX3429	MX3739
MX131	MX3230	MX3435	MX3763
MX132	MX3232	MX3437	MX3767
MX133	MX3234	MX3440	MX3770
MX134	MX3235	MX3444	MX3796
MX135	MX3240	MX3445	MX3801
MX138	MX3244	MX3446	MX3807
MX139	MX3245	MX3447	MX3818
MX140	MX3253	MX3449	MX3819
MX141	MX3260	MX3455	MX3821
MX142	MX3265	MX3461	MX3823
MX143	MX3269	MX3465	MX3827
MX144	MX3277	MX3473	MX3839
MX145	MX3280	MX3475	MX3912
MX146	MX3281	MX3480	MX3931
MX147	MX3285	MX3501	MX3933
MX148	MX3301	MX3502	MX3935
MX149	MX3302	MX3503	MX3961
MX155	MX3315	MX3505	
MX159	MX3321	MX3514	
MX161	MX3322	MX3515	
MX163		MX3528	
MX167		MX3535	
MX168		MX3540	
MX169			
MX171			