NovaFlex® FS5000 Frame Sealant
Technical Data Sheet

NOVAGARD
PERFORMANCE SILICONES

DESCRIPTION
NovaFlex FS5000 Frame Sealant is a neutral cure, single-component, architectural grade 100% silicone sealant. Formulated for internal frame sealing of curtainwall, window wall as well as general glazing in building facades. This advanced formula applied as a paste will cure at ambient temperature to form a durable and flexible silicone rubber seal that ensures your building envelope is protected.

FEATURES AND BENEFITS
- Primerless adhesion to a wide variety of building facade materials
- Excellent durability and unaffected by UV, ozone, rain, snow, or temperature cycling from -40°F to 400°F (40°C to 204°C)
- Fast skin time to allow for quicker movement of units
- Ease of application as easily gunned in both cold and hot environments

APPLICATIONS
- Engineered for high-performance weatherproofing and frame sealing
- Sealing perimeter joints on windows, doors, or curtainwalls, window walls and building facade assemblies

SURFACE AND JOINT PREPARATION
All surfaces and joints to receive sealant must be clean, dry, and free of contaminants—including moisture, frost, oils, grease, dust, surface dirt, concrete form release agents, old sealants or glazing compounds, asphalt, protective coatings, and other surface treatments—to ensure optimal adhesion.

SEALANT APPLICATION INSTRUCTIONS
- Before applying sealant, install all necessary backing materials, joint fillers, setting blocks, spacer shims, etc.
- Mask adjacent surfaces to ensure clean, professional joint lines. Primer is typically not required for nonporous surfaces but may be necessary for certain porous substrates; a test placement is recommended to confirm adhesion.
- When ready, use the nozzle to puncture the foil seal. Cut the nozzle at a 45° angle—cutting further down increases the bead size—and ensure a minimum ¼" contact surface on all sides.
- Apply NovaFlex FS5000 Frame Sealant in a continuous motion using positive pressure, whether by hand-operated or air-powered guns, or bulk dispensing equipment.
- Dispense the sealant steadily, ensuring it fully contacts both surfaces. For best results, push the sealant forward while dispensing.
- Before a skin forms—typically within 15 minutes—tool the bead using a concave tool and light pressure to press the sealant firmly into the joint and against the backing material, eliminating voids.
- On sill applications, tool the bead to shed water and prevent ponding.
- Do not use water, soap, or detergent solutions as tooling aids.
- Remove masking tape immediately after tooling and allow the sealant to cure undisturbed.

TYPICAL PROPERTIES – UNCURED*

Property	Test Method	Typical Value
Appearance	Visual	Paste
Extrusion Rate	1/8" Orifice @ 50 psi	78 grams/minute
Skin Time	3/8" @ 50% RH & 77°F	< 45 minutes
Tack Free Time	ASTM C679 @ 50% RH & 77°F	< 1 hour
Slump/Sag	ASTM D2202	0.1"

TYPICAL PROPERTIES – CURED*

Property	Test Method	Typical Value
Tensile Strength	ASTM D412	150-300 psi
Elongation	ASTM D412	400-900%
Hardness (Shore A)	ASTM D2240	25-35
Joint Movement	ASTM C719	+/- 50
Service Temperature		-40°F to 400°F (-40°C to 204C)
Application Temperature		-20°F to 160°F (-29°C to 71°C)
Adhesion Glass Aluminum	ASTM C794	 >15 pli >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.

VOC CONTENT
NovaFlex FS500 Frame Sealant has typical VOC Content of 27g/l (2.24%). 50-state VOC Compliant (<4%).

AVAILABILITY
NovaFlex FS5000 Frame Sealant is available in 10 ounce plastic cartridges, 20 ounce foil sausages, and 55 gallon drums.

COLORS
Available in white, bronze, black, gray, and tan. Please contact your Novagard representative for further information on custom colors.

STANDARDS
Meets or exceeds the performance of characteristics of ASTM C920, Type S, Grade NS, Class 50, Use NT, M, G, A, and O, TT-S-001543A, and TT-S-230C, and has the SWRI Seal of Validation.

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STORAGE
NovaFlex FS5000 Frame Sealant has a shelf life of twelve (12) months from the date of manufacture when stored in the original, unopened container at, or below, 75ºF (24ºC).

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 as a structural sealant.

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.