

NovaFlex® Qwik-Set Low Migration Glazing Sealant

Specification Data – Technical Data Sheet



DESCRIPTION

NovaFlex Qwik-Set Low Migration Glazing Sealant (QGL) is a two-component, 100% silicone, neutral cure sealant that rapidly builds adhesive and elastomeric strength for bedding and glazing of glass in residential and commercial window designs. It is designed to have low plasticizer migration to protect the integrity of the secondary sealant (please refer to secondary sealant manufacturer to confirm compatibility). It develops high initial green strength, so you don't have to slow your production waiting for traditional glazing to cure. NovaFlex Qwik-Set Low Migration Glazing Sealant allows for the movement of assemblies within minutes of application without silicone transfer or glass shifting.

NovaFlex Qwik-Set Low Migration Glazing Sealant demonstrates outstanding long-term resistance to natural weathering including extreme temperatures, ultraviolet radiation, rain, and snow, with negligible change in elasticity. All with the flexibility of a variable ratio, two-part, neutral-cure silicone.

APPLICATIONS

NovaFlex Qwik-Set Low Migration Glazing Sealant functions as an adhesive sealant that develops bonds to most substrates and commonly used accessories in the glass and glazing industry. It allows for high unit throughput, low pumping viscosity on production equipment, and void-free filling of the sealant joint.

STANDARDS

Meets or exceeds the strength performance characteristics of AAMA 802.3, Type I & II, and AAMA 805.2, Group C.

INSTALLATION

As with all two-component materials, the work-life and cure times of NovaFlex Qwik-Set Low Migration Glazing Sealant are dependent upon environmental conditions such as temperature and humidity. Adhesion should be checked on small samples prior to full-scale production.

AVAILABILITY

NovaFlex Qwik-Set Low Migration Glazing Sealant is available in 55-gallon drums of Base (Part A) and in 5-gallon pails and 55-gallon drums of Catalyst (Part B).

STORAGE

NovaFlex Qwik-Set Low Migration Glazing Sealant has a shelf life of twelve (12) months from the date of manufacture for Part A, and 6 months for Part B, as indicated by the lot number when stored in the original, unopened container at, or below, 75°F (24°C).

When Qwik-Set Catalyst (QG0xxxB) is in storage, phase separation of plasticizer may occur (liquid plasticizer may be observed on the surface of the catalyst). This phase separation does not indicate a

defective product. Re-incorporate the plasticizer into the top few inches of the catalyst with gentle stirring using a wooden spatula or paint stir stick. Use immediately to avoid the introduction of atmospheric moisture.

PRECAUTIONS

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

Silicone setting blocks are recommended for direct contact with NovaFlex Qwik-Set Low Migration Glazing Sealant. Avoid using non-silicone materials (*i.e.*, EPDM, Neoprene) as they could degrade or discolor the product seal over time. Compatibility testing is recommended on all materials that are to be in direct contact with NovaFlex Qwik-Set Low Migration Glazing Sealant. Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides.

LIMITATIONS

Not recommended for: Joints continuously submerged under water; Areas needing paint or stain.

TYPICAL UNCURED PROPERTIES*

Physical Property	Base (Part A)	Catalyst (Part B)
Appearance	Off White (QGL000A)	Dark Gray (QG0126B) Black (QG0110B) Gray (QG0119B)
Viscosity (cPs)	150,000 – 350,000	200,000 – 400,000
Specific Gravity	1.33 – 1.37	1.03 – 1.07

MIX RATIO BY WEIGHT*

Physical Property	Base to 1 gm Of Catalyst				
Base Ratio by Volume	8:1	9:1	10:1	11:1	12:1
Base Weight (gm)	10.3	11.6	12.9	14.1	15.4

MIXED PROPERTIES*

Physical Property	Typical Value
Color	Dark Gray (QG0126) or Black (QG0110) or Gray (QG0119)
Specific Gravity	1.31
Mixed Ratio Range	8:1 to 12:1
Snap Time Range	3 – 11 minutes
Tack-Free Range	7 - 19 minutes
Sag, Boeing Jig	< 0.1

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TYPICAL CURED PROPERTIES (10:1 by volume) *

Physical Property	Test Method	Typical Value
Color		Dark Gray (QG0126) or Black (QG0110) or Gray (QG0119)
Tensile Strength	ASTM D412	225-325 psi
Elongation	ASTM D412	125-225%
Shore A Hardness	ASTM D2240	40-50
Peel Strength Aluminum Glass PVC PVDF Acrylic	ASTM C974	7-Day Cure >18.0 lbf/in >19.0 lbf/in >18.0 lbf/in >18.0 lbf/in >15.0 lbf/in
Green Strength (Glass to Aluminum) 15 minutes 30 minutes	ASTM C1135	26 psi 45 psi

TYPICAL CURE RATES*

Physical Property			
Base Ratio by Volume	8:1	10:1	12:1
Typical Snap Time (minutes)	3 - 5	6 - 8	9 - 11
Typical Tack-Free Time (minutes)	7 - 11	11 - 15	15 - 19

*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.