Product Data Sheet

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Nu-Glaze Holdings (Pty) Ltd
Company Registration No 2013/074262/07
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The Nu-Glaze® System

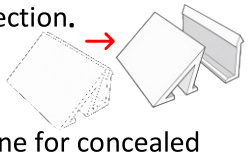
Product description

The Nu-Glaze® system

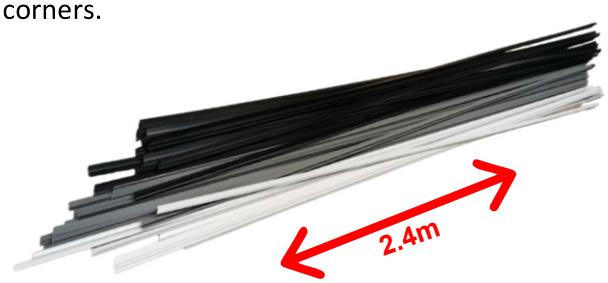
The Nu-Glaze® system consists of

- **The glazing profiles**, the primary component of the system, are patented non-solid triangular uPVC sections, designed in various sizes to secure, and seal the glazing into the window frame.

  The profile is designed to be placed and sealed around the glass or Polycarbonate/acrylic pane (hereafter called the pane), and then to be sealed into the window frame.
  The profile may also be used when the pane is left in place in older glazing, and only the external glazing component (normally putty or timber bead) is replaced, i.e. retrofit. For this purpose, the profile has a snap-off option to produce a triangular 'bead' plus L-shaped back-lip section.



- **The sealant/adhesive**, Neutral cure silicone for concealed adhesion and sealing between pane & profile and profile & frame, and a high spec water based Latex Acrylic for final sealing and finishing, fully paintable once dry.
- **U-clips** for mechanical securing the installation during curing of the sealant for conditions such as warped frames.
- **Corner inserts**, for mechanically securing the installation at the inside corners, especially on wooden windows.
- **Spacers,** for filling the F4B steel frame hollow and provide spacing where needed.
- **Mitre cutter,** a patented unit for cutting the profile to obtain the correct mitre angle required at the window corners.



Applications

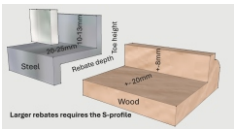
- Replacement for putty and other material in glazing installations in windows and doors or where a flat sheetlike material needs to be fixed onto or into a receiving rebate.
- Formation of a sub-frame on a flat surface (ie counter) to enable perpendicalar panel installation.
- Similar applications such as in partitioning, showers, panelling, etc.
- As a 45°quarter flat quadrant applicable in situations such as at countertop edges against vertical tiling.
- Triangular wire/cable concealment trunking.

Product data

Material, appearance, dimensions, colour

- The **glazing profiles** comprise various extruded non-solid triangular UV-resistant uPVC sections in various colours, sized to fit specific windowpane thicknesses and window frame rebate dimensions, as follows:

Type S - for frame rebates 22mm x 13mm. Typical of metal and some wooden window frames.



Available in white, black, or dove grey.

The **S4** type accommodates a 3-4mm glass pane.





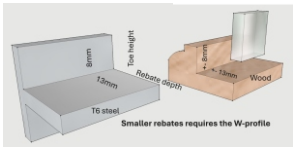
The **S7** type accommodates a 5-6,38mm glass pane.





Type W - for frame rebates 13mm x 8mm. Typical of wooden and some metal window frames.

Available in white or black.



The **W4** type accommodates a 3-4mm glass pane.




- **Stock lengths**: All comes standard in 2,4m lengths
  Customized lengths are possible, T&C's applies

Stock codes: SW4…S-profile for 3-4mm glass in White
SG4… S-Profile for 3-4mm glass in Dove grey
SBL4…S-profile for 3-4mm in Black
SW7… S-profile for 5-6,38mm glass in White
SG7…S-profile for 5-6,38mm glass in Dove grey
SBL7…S-profile for 5-6,38mm in Black
WW4…W-profile for 3-4mm glass in White
WBL4…W-profile for 3-4mm glass in Black

Snap-off options: Each profile has a score line located in the base to allow the *snap-off* of the front triangular section for use in the Frontal Method. In case an old glazing install needs to be renovated, this feature allows the glass pane to be left in place, if thus determined by risk, costs, or time factors.

The S7-profile has another score-line in the back lip to enable lowering of the profile where necessary.



- **The sealant/adhesive** recommended:
  Neutral cure silicon material, in clear/transparent non-proprietary construction grade silicon material, available in 310 - 280mm extrusion cartridges.
  The silicone is to be applied in a concealed position, any excess needs to be removed completely since it renders the frames un-paintable.
  Compatibility tests should be carried out prior to use.

  On specialized materials, such as Polycarbonate or Acrylic glazing, the appropriate type of neutral cure silicone needs to be specified.

  A Latex containing acrylic sealer/finisher is recommended to cover and close any, if at all, hairline openings, not exceeding 2mm, especially where water, air or dust can enter between profile and frame. The acrylic sealant is water based and paintable, available in matching colours to the 3 Nu-Glaze colours. This is not the primary adhesive, but an aesthetics finisher, prolonged water immersion should be avoided.
- **U-clips**, in white uPVC.
- **Corner inserts**, in white and clear plastic.
- **Spacers,** ±3mm thick x ±12mm wide x ±40mm long hard ABS plastic, to be used as fillers or spacers where and as needed. The steel F4B profile presents a hollow that can cause the Nu-Glaze installation to sag in.

Proprietary tooling: Mitre cutters

- **Mitre Shear**, an adjustable steel cutter with plastic handles for cutting profiles to the required angles.



Storage conditions and shelf life

The uPVC glazing profiles:

- Maximum storage ambient temperature: 40° C.
- Avoid bending in storage.
- Care must be taken to keep it flat on a smooth surface.
- Avoid loading, walking/standing on the product.
- Avoid dragging or pick up by one end.
- Avoid stacking heavy and irregular shaped objects on it, as it will bend and damage the profiles.

U-Clips and Inside corners:

- Avoid loading with heavy items or walking or standing on the product.

Silicone and Latex Acrylic sealant/adhesives:

- Store away from direct sunlight and in cool conditions; 12 months shelf life.

Miter Cutter

- Dry off and clean after use, lightly oil the stainless steel metal parts.
- Avoid extreme high temeratures and/or open flames. Plastic parts will melt and deform with prolonged exposure to above 40deg Celcius.

Technical Properties

Glazing Profile

Material	RX328/W9 UV PVC - Ca/Zn stabilizers (No Lead or heavy metals)
Density	1.47g/cu.cm
Hardness	84 Shore-D hardness
Tensile strength	40MPa
Elongation at break	25%
Impact strength	220kJ/m²
Softening point	84°C or 181,4°F
Chemical resistance	Highly resistant to cleaning materials under normal atmospheric conditions. Discolouration and cracking can occur under extreme or abusive conditions.
Thermal resistance	Under non-simultaneous chemical and mechanical exposure, max permanent allowable heat: Dry 120°C and Wet 70°C.
Flammability	Self-extinguishing.
Painting of profile	uPVC is fully paintable, by either slight keying (fine steel wool or 220 grit emery paper) or appropriate plastic primer. PVA Acrylic works best, but solvent based paints can be used with confidence as well. See note in **Maintenance…**

Note on the uPVC formula:

The formula used in manufacturing the uPVC for Nu-Glaze has been developed for Nu-Glaze since this type of application is quite unique worldwide. Periodically testing ensures quality standard adherence.

Sealant/Adhesive Neutral cure silicone	
Material basis	Polysiloxane Low modulus neutral cure silicone
Curing system	Moisture curing
Density	0.99g/ml -> 1,25 g/ml
Curing speed (20°C/65%R.H)	Ca. 2 mm/24h
Hardness	20 -> 25 Shore-A
Elastic recovery (ISO 7389)	>80%
Elongation at break	500% -> 800%
Application temperature	5 °C -> 35 °C
Temperature Resistance	-60 °C -> 150 °C
Application rate	230g/minute using 6mm orifice at 200kPa pressure
Tack free time	Ca. 15 minutes at 23°C and 50% humidity
Max. tension (DIN 53504)	1,30 N/mm²
Elasticity modulus 100% (DIN 53504)	Ca. 0,37 N/mm²
Tooling time	8 minutes
Latex Acrylic sealant/finisher	
Material basis	Acrylic dispersion
Consistency	Paste
Density	Ca.1,65 g/ml
Curing system	Physical drying
Skin formation* (23°/50% R.H.)	Ca. 20 min
Maximum allowed distortion	Ca. 12%
Temperature resistance**	-20 °C -> 80 °C
Shrinkage	Ca. 15% (DIN 52451)
Application temperature	5 ˚C -> 30 ˚C

* These values may vary depending on environmental factors such as temperature, moisture,and type of substrates.
** This information relates to fully cured product.

Notes on Neutral cure silicone sealant

Advantages

- **Easy to work, extreme long life, no maintenance or discolouration.**
- **Cleans with methylated spirits.**

Disadvantages

- **Non-paintable, paint frames before glazing, may attract dust due to "sticky" surface.**

Rate of usage

- **On a typical Nu-Glaze application, regardless of method – approximately 1 x 280ml tube per every 12-15 linear meter of glazing.**

Notes on Acrylic sealant

Advantages

- **Easy to work with, cleans excess with a damp cloth, very little sag, or discoloration. May need to top up after a few hours of curing.**
- **Paintable when cured**

Disadvantages

- **Not strong enough adhesion to be used as such.**

Rate of usage

- **On a typical Nu-Glaze application, regardless of method – approximately 1 x 280ml tube per 50 linear meters of glazing.**

Maintenance of Nu-Glaze

- Cleaning: Wipe surface with a damp cloth, with a "soft" soap added if necessary. Solvents containing aldehydes, esters, aromatic and halogenated hydrocarbons and ketones should not be used as these might damage the surface. Minimal cleaning is required initially due to smooth finish of the material, which may become slightly textured over many years
- uPVC can be painted with Exterior PVA acrylic or enamel (water based and/or solvent based), after being keyed and/or primed with a suitable plastic primer.
- Repair: Dents or cracks may be repaired using PVC epoxy weld.

Replacement of the glazing

- The Nu-Glaze beading is virtually impossible to remove unless the glass is broken first. In the event of the glazing requiring replacement due to breakage, remove the remainder of the glass, then carefully remove the beading by cutting the sealant from the exterior as well as from the interior while pulling the beading away from the frame.
- Do this action in the reverse order to the installation order, in other words, start removal at top horizontal, then the 2 vertical sides and lastly remove the bottom horizontal piece.
- Once removed, clean off the residual sealant, inspect for damages and reinstall with new glass and new sealant/adhesive as specified.
- The removal needs to be done in the reverse order than the installation order, i.e. top horizontal first, then the 2 vertical sides, and lastly the bottom horizontal piece.

Limitations

Due to the 3-dimensional shape of the profiles, bending requires an advanced level of skill. Nu-Glaze can be applied to half round and round windows or openings without the risk of breaking by cutting out V shaped notches from the back of the profile, then heating slightly. A 'dry' test should be carried out first before applying adhesive.





Legal Notes

The information recorded in this specification is given in good faith, based on Nu-Glaze's current knowledge and experience relating to the product.
Users must always refer to the most recent issue of the product data sheet, copies of which will be supplied on request, or from the Nu-Glaze website, www.nu-glaze.co.za, or in consultation with relevant building experts for use in non-standard situations.
Nu-Glaze Holdings (Pty) Ltd will not be held responsible for any damage or losses incurred directly or indirectly from installing the product, should such usage be outside the given limits and safety regulations, and should all possible measures not have been taken to prevent damages or losses.

NU-GLAZE®
uPVC ALTERNATIVE TO WINDOW PUTTY

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