

## TECHNICAL DATA SHEET

### DOLPHIN 105 Aluminium & Glass Silicone Sealant

Revision Date : 20<sup>th</sup> Sept, 2022

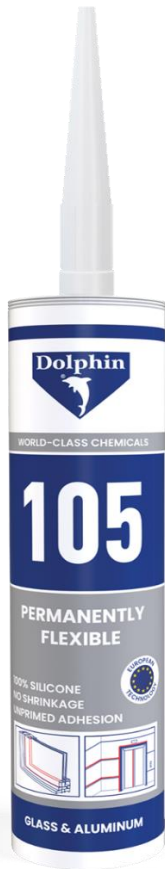
Revision No. 4

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#### PRODUCT DESCRIPTION

Dolphin 105 Glass & Aluminum Silicone Sealant is 100% silicone with absolutely Zero Shrinkage. It's a single component Acetic cure sealant, which is cured by atmospheric moisture to form a powerful rubber seal. Dolphin 105 Silicone is specially designed for Glass and Composite Panels and also forms an unprimed adhesion to cleaned substrates like glass, glazed surfaces, galvanized aluminum and other galvanized metals. It also builds a high strength seal to plastics, tiles, wood and concrete. It is resistant to UV and assures enhanced quality and long term performance.

#### TECHNICAL PROPERTIS



| Properties                              | Test Method | Unit              | Specifications    |
|---|-------------|-------------------|-------------------|
| Chemical Base                           |             |                   | 1-C Silicone      |
| Cure Mechanism                          |             |                   | Moisture          |
| Cure Type                               |             |                   | Acetoxy           |
| <b>As Supplied @ 25°C, 50% RH</b>       |             |                   |                   |
| Color                                   |             |                   | Clear, Black      |
| Consistency                             |             |                   | Homogeneous paste |
| Density                                 | ASTM D 1475 |                   | 1.00 ± 0.01       |
| Flow Properties                         | ASTM C 639  | mm                | 0 (Non-sag)       |
| Skin Over Time                          | ASTM C 679  | minutes           | Approx. 8         |
| Tack Free Time                          | ASTM C 679  | minutes           | Approx. 13        |
| Depth Cure, 24 hrs                      | Lab Test    | mm                | ~ 2.5             |
| <b>As Cured – 7 Days @ 25°C, 50% RH</b> |             |                   |                   |
| Hardness (Shore A)                      | ASTM D 2240 | Points            | 21 – 26           |
| Tensile Strength                        | ASTM D 412  | N/mm <sup>2</sup> | < 0.90            |
| Elongation                              | ASTM D 412  | %                 | ≤ 500             |
| Young's Modulus                         | ASTM D 412  | MPa               | < 0.40            |
| Service Temp.                           |             | °C                | -20 to +250       |
| Application Temp.                       |             | °C                | 5 to 45           |

Note:

\* Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application.

\* Information on this data sheet is subject to change without prior notice and should not be used for writing specifications

#### TYPICAL USES

- Interior Application
- Galvanized Aluminium Sliding and Galvanized Metal Sliding
- General Industrial Applications
- Glass Glazing
- Sheet metalwork
- General Sealing and waterproofing
- General Constructions

#### KEY FEATURES

- Negligible Shrinkage
- Excellent Adhesion
- Anti-Fungal & Anti-Bacterial
- UV & Weather resistant

|                               |  |
|-------------------------------|--|
| <b>COLORS</b>                 | DOLPHIN 105 ALUMINUM & GLASS SILICONE SEALANT is available in Clear, White, Black and Grey. RAL* colors are available upon request.<br>*Special color orders may require lead time and minimum order quantities.   |
| <b>PACKAGING</b>              | DOLPHIN 105 ALUMINUM & GLASS SILICONE SEALANT is available in standard caulking cartridges and 200 Liter drum.   |
| <b>SURFACE PREPARATION</b>    | The substrate areas that will be in contact with sealant must be clean, dry and free of all loose materials, dust, dirt, rust, oil and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with another such cloth before the solvent evaporates from the surface                              |
| <b>JOINT DIMENSIONS</b>       | Joint dimensions: Min. width for joints: 5 mm, Max. width for joints: 30 mm, Min. depth for joints: 5 mm.<br><b>Recommendation Sealing jobs:</b> Joint width= 2 X Joint depth  |
| <b>TOOLING AND FINISHING</b>  | Immediately tool sealant after application and before skin formation. Tooling of sealant should be done in one continuous stroke. Remove masking tape immediately after tooling is completed.  |
| <b>CLEANUP AND REMOVAL</b>    | Uncured sealant may be removed from tools, equipment and non-porous surfaces with solvents. For porous substrates, allow the sealant to cure before removal by peeling or other mechanical means. Cured sealant can only be removed mechanically.  |
| <b>LIMITATIONS</b>            | Not paintable. May not be suitable to join sensitive natural stones such as marble, granite or quartz, as this may cause staining. Not to be used in contact with sensitive metals such as lead, copper, brass, zinc, carbon steel, galvanized iron or magnesium as corrosion may occur during acetic acid release/sealant cure. Substrate compatibility test is always recommended. |
| <b>STORAGE AND SHELF LIFE</b> | When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, DOLPHIN 105 ALUMINUM & GLASS SILICONE SEALANT has a shelf life of 18 months from manufacturing date. Containers should always be kept sealed when not in use.  |
| <b>HANDLING PRECAUTIONS</b>   | Use in well-ventilated area. Direct contact of uncured sealant irritates eyes and may irritate skin. Over exposure to vapor may irritate eyes, nose and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.          |

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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