



## NEUTRAL CURE ALCOXY

### SILICONE SEALANT

PROFI-SIL<sup>®</sup> NEUTRAL is a multi-purpose neutral silicone sealant for glazing and panel caulking. Ideal for all kind of windows, connecting joints at windows and doors, mirror systems installation, glass supportive surfaces (framing, decorating, glazing) and cracks in construction and industrial systems. Remains permanently flexible and has outstanding temperature resistance from -40 °C to +120 °C when cured. Causes no corrosion to metals and is applicable to alkaline surfaces.

PROFI-SIL<sup>®</sup> NEUTRAL kullanıma hazır, cam yerleştirilmesinde ve metal profil ve elemanlarının kenar sızdırmazlığında kullanılan çok amaçlı nötr silikondur. Her türlü kapı ve pencerelerin bağlantı dolgularında, ayna yapıştırma ve cam destekli yüzeylerin montajında (doğrama birleşimleri, dekoratif cam vitrin, ısıcam bağlantı alanlarında) ve her türlü çalışan fugalarda kullanılır. Sertleştikten sonra devamlı elastik kalır ve -40 °C ile +120 °C aralığında ısıya dayanıklıdır. Alkali zeminlerde ve metallerde kullanılır, korozyon oluşturmaz. Kokusuzdur.

PROFI-SIL<sup>®</sup> НЕЙТРАЛЬНЫЙ – готов к применению широкого назначения. Предназначен для герметизации швов стекла, ПВХ и алюминиевых профилей. При монтаже окон и дверей, склеивает стеклянные и зеркальные изделия, заполняет и герметизирует всевозможные сантехнические соединения. Так же используется в межпанельных швах, бетон, кирпич, не поддается коррозии и окислению. В готовом виде силикон выдерживает температуру от -40°C до +120 °C.



## TECHNICAL DATA SHEET

PROFI-SIL NEUTRAL CURE SILICONE SEALANT (ANTIBACTERIAL)

Page 1  
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- Product Description**      **PROFI-SIL Neutral Cure Silicone Sealant (Antibacterial)** is a high performance neutral cure silicone sealant designed to give superior adhesion and durability in a wide range of glazing, weather-sealing, bonding and repairing jobs. It is particularly suited for top window glazing. Product may be used generally for sealing of connecting and expansion joints in the building industry.
- Properties**
- Ready to use
  - Neutral curing system: alkoxy
  - Room temperature cure
  - One part silicone sealant
  - Low modulus
  - Excellent resistance to weathering, ultra violet radiation, vibration, moisture, ozone, rain, snow, temperature extremes, airborne pollutants, many cleaning detergents and many solvents
  - Ready gunnability at low (-20°C) and high (+ 40°C) temperatures
  - Flexible at low (-40°C) and high temperatures (+ 100°C)
  - Non-corrosive to metals and alkaline surfaces, such as concrete, mortar or fibre cement
  - Abrasion-resistant
  - Non-slumping
  - Compatible with water-based and solvent-based coatings: no plasticizer migration
- Benefits**
- Contains fungicides to avoid mould-forming.
  - Low shrinkage on curing
  - Almost odourless
  - Can be used in any climate
  - Primerless adhesion to a wide range of building materials
  - Can be applied in vertical and overhead joints
  - Available in a wide range of colours from transparent to black
  - Easier stock keeping ; long shelf life 15 months from production date
- Applications**
- PROFI-SIL Neutral Cure Silicone Sealant** could be applied by either hand operated caulking guns or pneumatic guns to seal joints of a wide range of substrates, such as: most types of glass (laminated, coated, non-coated), brick, concrete, ceramic tiles, glazed tiles, enamels, clinker, metals such as steel, copper, zinc, lead, brass, aluminium, varnished or painted wood , and many plastics like PVC-U, epoxies, polyester, polyacrylate and many other substrates.
- Specifications:**      **PROFI-SIL Neutral Cure Silicone Sealant** meets the following standards:
- DIN 18 545-2, class E Sealant** for glazing - Description, Application, Testing  
**ISO 11600 - F & G - class 25 LM Building construction - Sealants - Classification and Requirements.**

**Directions**

**Joint Design and Dimension:** The silicone bead should not be thicker than 15mm and the minimum joint width should be 6mm to allow in the construction field proper application and tooling of sealant. The ideal ratio of joint width : depth is 2:1. In any case, the ideal minimum joint width must be four times the expected movement. For proper design deep joints should be filled with Back-up Rod. If joints are too shallow to allow backing material to be used, we recommend use of Masking Tape. This acts as a release film to prevent seal in forming of three-sided adhesion and thus allowing the joint to move and the silicone to stretch freely.

**Surface Preparation:** Contact area must be dry, clean, free of all loose material, dust, oil, grease, bitumen and ice. Metals must be sound. Remove old materials' residue, especially loose and not sufficiently adhering coatings. Clean and degrease the surface. Dry the surface before silicone application. Since surfaces vary greatly from application to application, it is recommended to perform and evaluate preliminary adhesion and compatibility tests before use. Always contact the substrate-supplier to check which cleaning agent should be used for the specific material in respect of compatibility and surface treatment. PROFI-SIL Neutral Cure Silicone Sealant is compatible with all cured one-part silicone sealant. Where two or more different sealant are used, allow the first layer to cure completely before applying the next. To ensure neat sealant edges protect the areas adjacent to the joint with Masking tape.

**Application:** Cut off the top of the threaded adapter. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width. Place the cartridge in the gun and inject the joint with the sealant. Apply the material with sufficient pressure to the joint sides to ensure immediate adhesion. The applied sealant should be smoothed immediately with a spatula soaked in Smoothing Agent or soapy water for best result. Remove masking tape before skin will form.

**Cleaning:** Clean while fresh. After curing, it can be removed mechanically only.

**Storage Stability:**

**PROFI-SIL Neutral Cure Silicone Sealant** has a shelf life of at least 12 months if stored in a cool (from +5°C to +25°C), dry place in tightly closed containers. The "Best use before end" date of each product is printed on packaging. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.

**Packaging**

**PROFI-SIL Neutral Cure Silicone Sealant** is usually supplied in standard size cartridges 310ml and 600ml foil. 400ml foil packaging or 200 L drums can be supplied on request.

**Typical Technical Data** As supplied - tested at 23°C , 50% relative humidity

Consistency	ISO 7390, Profile U 20		Non-sag
Density at 23 °C	ISO 2811	[gr/cm <sup>3</sup> ]	1.01
Tack-free time (at 23 °C / 50 % r.h.)		[min]	20
Skin-forming time (at 23 °C / 50 % r.h.)		[min]	10-20
Shrinkage during curing	EN ISO 10 563:2000	[%]	4,0
Curing rate		[mm / 24 h]	2,0

As cured – tested after 4 weeks at 23°C and 50 % relative humidity.

Hardness, Shore A	ISO 868		22
Tensile strength	ISO 8339	[N/mm <sup>2</sup> ]	0.5
Ultimate elongation	ISO 8339	[%]	250
Modulus at 100 % elongation	ISO 8339	[N/mm <sup>2</sup> ]	0.34
Movement capability	ISO 11600	[%]	± 25
Curing rate	ISO 7389	[%]	> 90

These figures are intended as a guide and should not be used in preparing specifications.

**Practical Information**

Estimated consumption: Number of linear meters per 310 ml cartridge and 600 ml foil. These values are approximate and serve as a rough guide for right-angled joints. Joint depth is measured to the rear of the profile.

METERS PER 310 ML CARTRIDGE								
Joint depth in mm	Joint width in mm	5	7	10	12	15	20	25
5		8,5	7,4	5				
7			6	4,4	3,7			
10				3	2,5	2	1,5	
12					2	1,7	1,3	1
15						1,4	1	0,8

METERS PER 600 ML ALUMINIUM FOIL								
Joint depth in mm	Joint width in mm	5	7	10	12	15	20	25
5		17	14,3	10				
7			12	8,5	7			
10				6	5	4	3	
12					4	3	2,5	2,0
15						2,7	2,0	1,6

**Safety and Health Precautions**

Apply the usual hygienic measures. For detailed information refer to Material Safety Data Sheet available at PROFI CHEMICALS upon request. Keep out of the reach of children. Avoid contact with skin and eyes. Use only in well ventilated areas.

Disposal considerations: Product remains and empty cartridges must be disposed of in compliance with official, local regulations.

User takes under his responsibility any loss or damage resulting from application of primers other than those recommended by Profi-Chemicals. The information herein results from objective testing and our experience it is deemed to be accurate and reliable but is given for your guidance only, without any commitment on our part. Since the method of application and site conditions are beyond our control and affect performance, we shall not be liable for any loss or damage. Prior tests should be made by the user under his own operational conditions.