



NEUTRAL CURE ALCOXY

GLAZING SILICONE SEALANT

PROFI-SIL® GLAZING is a one-component, neutral-cure silicone sealant for sealing and waterproofing all types of windows and frames, ideally used for glass and glazing.

It can be used for water-tight sealing of window frames, installation of aluminium windows and contact glazing of counters and shop front windows, glass display cabinets, sealing around skylights and light fittings, construction of aquariums, sealing in refrigerating, ventilation and air conditioning systems. The product has excellent adhesion properties to smooth surfaces like: glass, ceramics, aluminium and metals. Waterproof, blocks penetration of water into the joint. Unaffected by high or low temperatures. Excellent resistance to UV.

PROFI-SIL® CAM SİLİKON cam ünitelerinin montajında, her türlü kapı pencere elemanlarının kenar sızdırmazlığında, yüksek yapılardaki esneyebilir dolgu aralarında, plastik, metal, ahşap doğramalara cam yerleştirilmesinde kullanılan tek komponentli, yüksek mukavemetli nötral karakterde bir silikondur.

Özellikle pencere çerçeveleri ve kasa aralıklarında, bunların kenar sızdırmazlığında, cam modüllerin alüminyum çerçevelere tutturulmasında, dış cephe giydirmelerinde strüktürel uygulamalarda, cam/cam, cam/alüminyum konstruksiyonlarda, cam montaj detaylarında, akvaryum, vitrin, v.b. tatbikatlarda, soğuk hava deposu izolasyonunda, havalandırma sistemlerinde, cam modüllerin metal çerçevelere tutturulmasında kullanılır. Kesinlikle su geçirmez ve derz dolgulara sızdırmazlık sağlar. Cam, seramik, alüminyum ve metal yüzeylerde mükemmel yapışma. Yaşlanmaya, hava şartlarına ve UV ışınlarına dayanıklıdır.

PROFI-SIL® СТЕКОЛЬНЫЙ СИЛИКОН – Эластичный, кислотный силиконовый герметик, разработан специально для склеивания и герметизации стеклянных поверхностей, таких как: водонепроницаемая герметизация оконных рам, стандартное и контактное остекление прилавков и витрин, герметизация стекольных конструкций и светопрозрачных крыш, герметизация холодильников, вентиляционных и систем кондиционирования, монтаж рекламных щитов и многое другое. Обладает отличной адгезией к гладким поверхностям, таким как: стекло, керамика, алюминий и металл. Устойчив к влаге, суровым непогодным условиям и к УФ лучам.



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Product Description

PROFI-SIL Glazing 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. Being neutral curing, **PROFI-SIL Glazing** is suitable for use with laminated glass. Product may be used generally for sealing joints in:

- Glass and window construction
- Kitchens and bathrooms
- Aquariums and display cases
- General bonding, sealing and insulation

Properties

- Ready to use
- Neutral curing system: alcoxy
- 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 Glazing 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 Glazing 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 Glazing 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.

unusable,

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 but a quality control should be performed on the properties relevant to the application.

Packaging

PROFI-SIL Glazing 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 ³]	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 ²]	0.5
Ultimate elongation	ISO 8339	[%]	250
Modulus at 100 % elongation	ISO 8339	[N/mm ²]	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.

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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 PROFIL 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 PROFIL-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.