



ACETOXY CURE

UNIVERSAL SILICONE SEALANT

PROFI-SIL® UNIVERSAL SILICONE is a multi-purpose acetoxy silicone sealant for general purpose use in do-it-yourself applications both indoors and outdoors for filling, bonding and protecting surfaces against moisture and air penetration. Sealant is used for standard and butt glazing of frames, panels, shop fronts, curtain walling, sealing and draught proofing of glass and metal assemblies. Exhibits excellent adhesion to glazed surfaces as well as to many plastics and metals.

PROFI-SIL® ÜNİVERSAL SİLİKON kullanıma hazır çok amaçlı bir asetoksal silikon dolgu malzemesidir. İç ve dış yüzeylerde kullanılmak üzere geliştirilmiş, cama, sırlı yüzeylere, birçok metale, plastik çeşitlerine ve kaplanmış yüzeylere mükemmel yapışma sağlar. Çalışan fugalarda, izolasyon ve yapııştırma gayesiyle banyo ve mutfaklardaki fayansların suya veya neme maruz kalabilecek tüm yapı elemanlarının birleşim yerlerinde kullanılır.

PROFI-SIL® УНИВЕРСАЛЬНЫЙ – готов к применению широкого назначения. Предназначен для герметизации швов наружного и внутреннего применения. При монтаже окон и дверей, склеивает стеклянные и зеркальные изделия, металлические, пластиковые и керамические изделия, заполняет и герметизирует всевозможные сантехнические соединения. Также используется в заделке швов на кухне, в ванной и в местах с повышенной влажностью. В готовом виде силикон выдерживает температуру от -40 °C до +150°C.



TECHNICAL DATA SHEET

PROFI-SIL ACETOXY CURE UNIVERSAL SILICONE SEALANT

Page 1
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Product Description

PROFI-SIL Universal Silicone Sealant (Antibacterial) is a one-part, easy applicable, fast curing, acetoxy sealant, which in contact with atmospheric moisture forms a durable, flexible joint. All purpose silicone sealant is highly resistance sealant and is not affected by exposure to sunlight, snow and ozone and maintains this resistance over many years. It's an excellent sealing and bonding caulk with very good adhesion to a variety of non-porous substrates, such as:

- glass,
- glazing tiles,
- aluminium,
- ceramic,
- coated surfaces,
- many plastics.

Properties

- Ready to use
- Acetoxy curing system
- 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)
- Abrasion-resistant
- Non-slumping
- Compatible with water-based and solvent-based coatings: no plasticizer migration

Benefits

- Excellent adhesion to many materials
- Excellent physical properties
- Forms a durable, flexible, low-shrinkage joint
- Wide range of building applications
- Unaffected by exposure to sunlight, snow and ozone; remains resistant for many years
- Temperature Range - 40 to 150 °C

Typicals Application

- general sealing and assembling;
- standard glazing, cap beading, sealing;
- caulking of glazing tiles;
- bathroom, kitchen and other sanitary application;
- protection of polyurethane foams against sunlight

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 Universal 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 Universal 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 Universal Silicone Sealant is usually supplied in standard size cartridges 310ml and 600ml foil. 400ml foil packaging or 200 L drum can be supplied on request.

Transportation

Sea: IMDG: Not subject to IMDG code

Air: ICAO / IATA-DGR: Not subject to IATA regulation

Characteristics

Type of sealant	: Acetoxy curing-acetic
Specific Gravity (non cured)	: Approx. 0,97 g/ml
Consistency	: Thixotropic
Shore-A hardness (ISO 868)	: Approx. 20
Tensile Strength (2mm thick film)	: Approx. 1,8
Elongation at break	: Approx. 400 %
Application temperature (°C)	: + 5°C - 40 °C
Joint movement capability	: 15 %
Smoothing time	: 10 min. (23 oC & 50 % R.H)
Curing speed	: 1,5 mm/day (23 °C & 50 % R.H)
Shelf life	: 12 months, in original closed cartridges or drums, stored at +5 – 25 °C
Cured sealant	: operates between temperatures -40 – 150 °C

Colors

Transparent, white, grey, black or brown.

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 g 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 applicant 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.