

Silicone Sealant - Acetic Crosslinking

Eagle Seal Pro is a multi purpose acetic one component silicone sealant for application in sanitary areas, ready-to-use in PE-cartridges, applicable with silicone application guns.

APPLICATION AREA

- For connection joints in kitchen and sanitary areas.
- Joints in areas exposed to water.

CE-CERTIFICATION

- EN 15651-3: S Class S1

LIMITATIONS

Not suitable for applications on concrete, natural stone and materials which may corrode like lead, copper, zinccoated steel etc. Not suitable for PP, PE, Teflon and bitumen surfaces. Don't use for construction of aquariums or insulating glass. Avoid contact with edge sealant of insulating glass. Elastic joints may not be painted. The material is not compatible with paint.

PROCESSING INSTRUCTIONS

Surfaces must be stable, clean and free of dust, oil and grease. The best temperature of material and surfaces is between +5°C and +20°C. Pre-treating of porous surfaces with suitable primer is recommended. (please take note of primer table) Care for good ventilation!

It is recommended to test compatibility on the respective surfaces.

- Wear protection glasses and protection gloves.
- Cut off the tip, screw on the nozzle and cut it to the required thread width.
- Apply silicone evenly by using a suitable application gun for cartridges 310 ml: guns N°. 112, 113, 115, 116, 120.
- Smoothen the silicone using smoothing agent (see Technical specification) dish liquid is not suitable, can cause yellowing of the material.
- Remove excess smoothing agent immediately after application.

AVAILABLE COLOURS

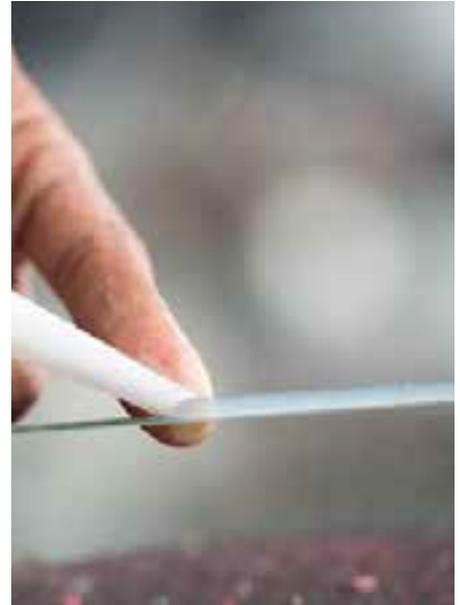
Clear, white, grey, brown, black.
Special colors upon request.

CLEANING

In case of skin contact clean by using much water and soap.

Cured acrylic can be removed mechanically, or using silicone remover (see Technical specification).

MADE IN GERMANY





TECHNICAL DATA

Basis		Acetate
Application temperature		+5 °C - +40 °C
Temperature Resistance	After curing	-30 °C - + 120 °C
Density		0,96 g/cm ³
Skinning Time	+23 °C / 50% RF	Approximately 10 minutes*
Curing	+23 °C / 50% RF	Approximately 2 mm per day
Allowed deformation total		± 25 %
Shore-A-hardness	DIN 53505	17
Tensile strength	DIN 53504	2,0 MPa
Module E (100%)	DIN 53504	0,3 MPa
Elongation at break	DIN53504	> 400%
Storage	+5 °C - + 25 °C cool and dry	Unopened 18 months

RF - relative air moisture

*) Depending on layer thickness and surface material

PACKAGING

Item name	delivery form	Consumption: gap metres per cartridge(280ml) at gap measures	
Eagle Seal Pro Universal Silicone	Cartridge 280 ml	Width x depth 4 x 6 mm 12 x 8 mm	Meters Appr. 4x6 mm cover 11.60m Appr. 12x8 mm cover 2.80m

SAFETY INSTRUCTIONS

Please follow the instructions for industrial safety and health protection in the safety data sheet and on the product label.
An EC safety data sheet is available.

RECYCLING

"The green dot" - for totally evacuated cartridges only! Partly evacuated cartridges are to be disposed in accordance to local applicable laws.

Acetoxy Sealant



PRODUCT DESCRIPTION

Eagle Seal Silicone.

Medium modulus acetoxy silicone sealant.

After suitable joint preparation and masking, the sealant is gunned into place and tooled within 5 minutes, using a spatula which has been dipped in a soapy water. Masking tape is then removed immediately. Uncured material can be removed by using a suitable solvent or an approved sealant remover. Cured material may be removed by abrasion or other mechanical means.

APPLICATIONS

Eagle seal is a one-part acetic moisture curing silicone sealant suitable for general construction sealing applications. Eagle seal acetoxy silicone is resistant to moisture. It has excellent resistance to aging, shrinkage, cracking and discoloring.

JOINT DESIGN

The sealant joint width should be designed to accommodate the movement capability of the sealant. In general, the minimum joint width should be 6mm. For joints between 6 – 12mm wide, a seal depth of 6mm is recommended. For joints above 12mm wide, a width to depth ratio of 1:1 should be used, up to a maximum depth of 15mm. For joint dimensions greater than 25mm, please contact Unitech's Technical Services Department. In situations where fillet joints are needed, a minimum of 6mm sealant bite to each substrate is recommended. Bond breaker tape or backer rod should be used as back up material to provide back pressure and avoid three-sided adhesion that limits sealant movement capability.



SURFACE PREPARATIONS

Surface shall be clean, dry and free from grease, dust and frost. Non-porous surfaces: Aluminum, glass etc., should be cleaned with a suitable solvent Isopropanol for instance, and metal surfaces can be improved by using a primer.

ATTENTION

Before handling, read product informations.

EXPIRATION AND STORAGE

When stored at or below 30°C in the original unopened cartridges this product has an expiration period of 24 months from the date of production. Unitech will guarantee the expiration period of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 6 digits, which stand for the month (last day) and year. Example: "EXP 05/2020" means use by 31 May 2020.





LIMITATIONS

Eagle Seal acetoxysilicone sealant is not recommended for porous substrates such as concrete, stone or marble. Do not use Eagle seal silicone sealant on bituminous substrates, substrates based on natural rubber, chloroprene or EPDM or on building materials which might bleed oils, plasticizer or solvents.

TYPICAL PROPERTIES

Property	Unit	Value
Cure system		Acetoxysilicone
Standard colors		Transparent, White, Black & Bronze.
Application temperature	°C	+5 to +40
Specific gravity	g/cm ³	1.02
Extrusion rate	g/min	510
Skin-over time (23°C, 50% R.H.)	minutes	11
Track-free time (23°C, 50% R.H.)	minutes	20
Cure rate (23°C, 50% R.H.)		
1 day	mm	1.5
3 days	mm	4.0
2mm thickness S2 dumb-bells (ASTM D412)		
E-Modulus 100%	MPa	0.56
Tensile strength	MPa	1.90
Elongation at break	%	500
12*12* 50mm size T.A. joint (ISO 8339/DIN2-8339)		
E-Modulus 100%	MPa	0.44
Tensile strength	MPa	0.49
Elongation at break	%	125
Hardness (Shore A)		24

LIMITATIONS

Eagle Seal Silicone Sealant is available in 280ml cartridge in a box of 24.

Acrylic Sealant**PRODUCT DESCRIPTION**

Eagle Seal Acrylic Sealant is mono-component, water based acrylic sealant and caulking compound for professional decorators. It is tough, elastic, odourless and provides a durable seal gives good waterproofing property after drying. It has excellent weather resistance, allowing it to be used outdoors. It is asbestos free, mildew and fungus resistant.

APPLICATIONS

Eagle Seal Acrylic Sealant is ideal for use on door and window frames, for waterproofing, wood frame joints, doors, windows sash, drywall, plaster board, marble tile, brick work, architraves, gap filling and painter's sealant for interior and exterior works.

TYPICAL USE

Eagle Seal Acrylic Sealant is primarily used for adhesion on mild steel, aluminium, concrete and ceramic.

ADVANTAGES

- Weatherproof
- Paintable
- Non-staining
- Crack resistant
- Excellent adhesion to most substrates
- Durable seal
- Indoor/Outdoor use
- Antifungal
- Tough Elastic
- Non-Flammable
- Environment Friendly
- Asbestos Free

SPECIFICATION

- Colour: White or Grey
- Consistency: Viscous paste
- Specific Gravity: 1.6 ± 0.1
- Solid Content: $72 \pm 1\%$
- Flash Point: No flash to boiling
- Tack free time: 5 minutes
- Skin over time: 20 minutes
- Cure time: Touch dry 2 hours
- Hard dry 24 hours
- Full cure 24 hours
- Hardness: Shore A 50
- Elongation: 150 minimum
- Joint Movement Capability: 12%
- Bead Consistency: Non-sag
- Crack test: No cracks after 7 days cure at room temperature
- Coverage: 45 metres/cartridge (3.2mm bead)
- Service Temperature: -10°C to 90°C
- Pressure Test: After 12 hours drying at 25°C it forms a strong bond.





DIRECTIONS FOR USE

Surface Preparation: Ensure the area to be sealed is clean, dry and sound. Remove any loose debris or old sealant. Never apply Eagle Seal Acrylic Sealant to wet or damp surfaces.

Material Application: Mask neighbouring surfaces for neat appearance using masking tape. Cut tip of cartridge at 45° angle to desired size joint so that it fills the joint completely, wetting the substrate surface. Remove masking tape, before sealant skins. Uncured sealant should be removed by moist cloth.

CAUTION

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Do not thin.

Do not use when ambient temperature is below 5°C and substrate temperature is above 60°C.

KEEP OUT OF REACH OF CHILDREN

CLEANING

Clean tools and smears with clean water before product dries.

SHELF LIFE

24 months from date of manufacturing.

STORAGE

Store in a cool dry place away from direct sunlight. Protect from freezing.

BATH AND KITCHEN ACETOXY SILICONE SEALANT



PRODUCT DESCRIPTION

Eagle Seal for Bath and Kitchen is a 100% one-component acetoxy cure, non-sag silicone sealant specially formulated to resist mold and mildew when fully cured. It has excellent adhesion to ceramics, tile board, corian, arborite and most acrylics.

APPLICATIONS

Eagle Seal for Bath and Kitchen can be used for caulking and sealing around bathtubs, shower stalls, bathroom vanities, kitchen counters and sinks. Also, suitable when replacing ceramic tiles and making new gaskets for dishwasher doors.

FEATURES

- Non-sag - Resists mold and mildew
- Excellent adhesion to ceramics and most acrylics.
- Good resistance to weathering and vibration.
- Good resistance to moisture and extreme temperatures.

IMPORTANT INFORMATION

Eagle Seal for Bath and Kitchen can corrode or may not adhere to copper or copper containing alloys, brass, magnesium, zinc or zinc containing alloys and galvanized metals.

COLOURS

Eagle Seal for Bath and Kitchen is available in transparent, black and white. Other colours are available upon request.

STORAGE AND SHELF LIFE

Eagle Seal for Bath and Kitchen has a shelf life of 12 months from date of production when stored in the original unopened containers at or below 35°C. In countries where high heat and humidity are a factor, special precautions must be taken and the product must be stored in a covered, well-ventilated warehouse and avoid excessive heat conditions.

Eagle Seal Weather Sealant



PRODUCT DESCRIPTION

Eagle seal weather Sealant is a neutral curing one component silicone sealant that has excellent weather, ageing and UV resistance properties and is specially developed for the weather sealing of structural glazing, angled glazing, wood-glass composite units, roof glazing and conservatories. Eagle seal weather Sealant is used for weather sealing of structural glazing, angled glazing, wood-glass composite units, roof glazing and conservatories. It is also suitable for joints on insulating glass units and glass elements made of laminated and tempered safety glass.

APPLICATIONS

Eagle Seal Acrylic Sealant is ideal for use on door and window frames, for waterproofing, wood frame joints, doors, windows sash, drywall, plaster board, marble tile, brick work, architraves, gap filling and painter's sealant for interior and exterior works.

TYPICAL USE

Eagle Seal Acrylic Sealant is primarily used for adhesion on mild steel, aluminium, concrete and ceramic.

FEATURES

- Excellent weathering, ageing and UV-resistance.
- Non-corrosive.
- High resistance to notches, tension and tearing.
- Excellent adhesion to many substrates.
- Compatible with PVB-foils in laminated safety glass.
- Suitable for insulating glass sealing based on silicone.

APPLICATION

After suitable joint and substrate preparation, can be gunned into place. Joints must be properly dimensioned as changes are no longer possible after construction. For optimum performance the joint width should be designed according to the movement capability of the sealant based on the actual expected movement. The minimum joint depth is 6 mm and a width / depth ratio of 2:1. For proper joint geometry and to prevent 3 sided adhesion to maximize sealant joint movement capability it is recommended to use compatible closed cell polyethylene or non out gassing polyolefin backer rod. If joints are too shallow for backing material to be employed, we recommend using a polyethylene tape. This acts as a release film, allowing the joint to move and the silicone to stretch freely.

DIRECTIONS FOR USE

- Ensure that surfaces are prepared as above
- Cut tip off cartridge and screw the nozzle onto the cartridge. Cut the tip of nozzle at an angle to achieve the desired bead size

ADVANTAGE

- Neutral cure
- Low odor
- Joint movement capability $\pm 30\%$.

CLEAN UP

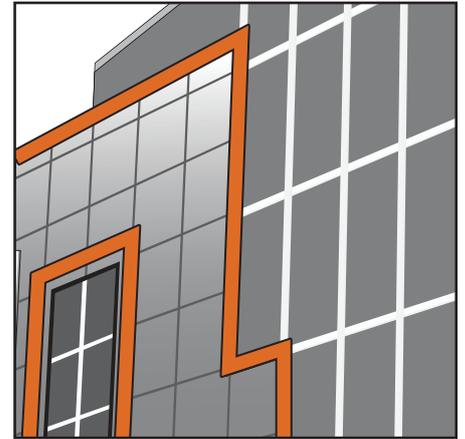
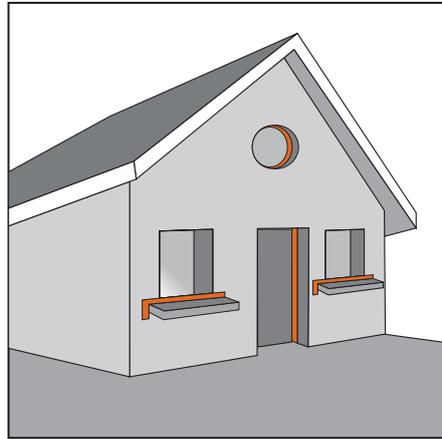
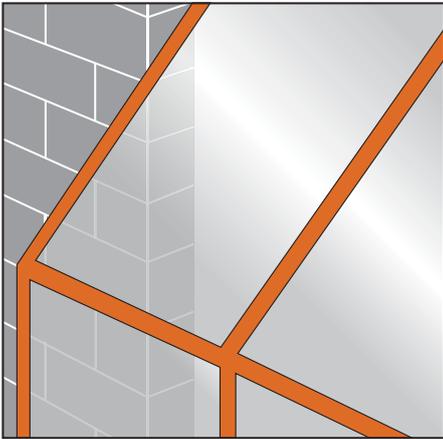
Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleaner and water. Do not use solvents!

PRIMING

Primers are not usually required. However, priming can be made on certain substrates for improved adhesion.

SUBSTRATE PREPARATION

Surfaces must be clean, dry and sound. Since new material is often covered with a protective film solvent, wash all surface materials with a wet brush and an oil-free solvent. Use masking tape where bead lines of exact shapes are required. Masking tape should be removed immediately after a bead is completed and before a skin begins to form. An air-operated or hand operated tool may be used to apply the sealant.



TOOLING AND FINISHING

Tooling and finishing must be carried out within the skin time of the sealant. When tooling freshly applied Eagle seal weather Sealant press the sealant to the joint bond line surface to get a good wetting of the bonding surface.

STORAGE AND SHELF LIFE

Eagle seal weather Sealant has a shelf life of 12 months from date of production when stored in the original unopened containers at or below 35°C. In countries where high heat and humidity are a factor, special precautions must be taken to store the product in a covered, well-ventilated warehouse and avoid excessive heat conditions.

COLORS

Eagle seal weather Sealant is available in black and white.

Other colors are available upon request.

Eagle Seal RTV Silicone Rubber Molding Systems



PRODUCT DESCRIPTION

Condensation tin cure molding RTV silicone rubber, tin-based silicone, also called condensation-cure silicone, are two-component materials which cure at room temperature the Eagle Seal RTV 1130 Silicon Mold making systems are flexible, high tear-strength rubbers. Tin cured silicone can be poured onto models or they can be made brush-able by adding a Thixotropic additive. They are ideal for molds where easy release or high temperature resistance is required.

CHARACTERISTICS

- 1) Compare to the common silicone rubber, the Eagle Seal RTV 1130 has good abrasion resistance, good duplication times and long life
- 2) Eagle Seal RTV 1130 has a Good physical performance, high tensile strength and tear strength
- 3) Eagle Seal RTV 1130 Cured in room temperature, low viscosity and good fluidity, easy to pump the vacuum
- 4) Eagle Seal RTV 1130 has a Lower shrinkage and precise mold after curing



APPLICATIONS

Plaster crafts Eagle Seal RTV 1130 Silicon Rubber is a two-component Eagle Seal RTV 1130 Silicon Rubber, Mainly used for the duplication of resin crafts, plaster crafts, candle crafts, POLI crafts, cultural stoner gypsum line, and GRC architectural decoration and figure duplication. Condensation Cure Mold Making Eagle Seal RTV 1130 Silicone Rubbers can be poured or brush onto products for casting polyurethane, epoxy, polyester resin, Gypsum/plaster, Cement, Waxes, Low melt alloys/metals, etc.

FEATURES

- Middle Shore A hardness (approx.30)
- Excellent tear strength
- High elongation and flexibility
- Little rate of deformation and shrinkage
- High temperature resist, high tear resist

NOTE

- 1) The amount of curing agent is determined on the temperature, reduce the usage when the temperature is high. If the curing agent used in excess, the mold will become fragile; curing agent using too little, the operation time will be extended.
- 2) It is not recommended to add the silicone oil to prevent the deformation of the mold.
- 3) When the Silicone mold not in use just, put a gypsum product into the mold to ensure the mold with no deformation and to control the shrinkage of the product.
- 4) In the process of plaster mold making, it is easy to leave gypsum powder in the mold, cleaning it timely can effectively improve the quality of the product and the duplicate times.
- 5) After adding the peroxide curing agent in the unsaturated resins and resin products, it will release a lot of heat. Generally, the curing time of the resin is 3 minutes, de-mold as soon as possible to prevent the phenomenon of burning mold.

STORAGE

Store in a cool dry place away from direct sunlight. Protect from freezing.

INSTRUCTIONS

- 1) Make a frame , then put the mold on the bottom and fasten it
- 2) Pouring 1000 Grams of Eagle Seal RTV 1130 Silicon Rubber then add only 3% [30 grams] of curing agent into the container then stirring evenly at room temperature with slow ramp per minutes electrical paddle mixing example [slow RPM drill machine].
- 3) Put the mixture into the vacuum machine about 5-10 minutes to eliminate the bubbles
- 4) Pouring the mixture into the frame slowly in one corner to avoid air bubbles
- 5) Remove the frame after the Eagle Seal RTV 1130 Silicon Rubber cured

