



UNITECH

Isam Kabbani Group of Companies
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SEALANTS, ADHESIVES & CHEMICALS

CONSTRUCTION SILICONE SEALANTS

EAGLE SEAL



PRODUCT DESCRIPTION

Eagle Seal Silicone.

Medium modulus acetoxy silicone sealant.

This sealant is ready to use. 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.

TYPICAL PROPERTIES

See Table 1.



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 05/2017" means use by 31 May 2017.

LIMITATIONS

Eagle Seal acetoxy silicone 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.

PACKAGING

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

TABLE 1

Property	Unit	Value
Cure system		Acetoxy
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

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