

# HPSA E7 SILICONE

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A neutral cure, high performance silicone sealant designed for gap filling and sealing in a wide range of building and construction applications . It combines the advantages of outstanding adhesion to building materials with its non-corrosive and odourless properties. HPSA E7 is formulated specifically for uPVC perimeter sealing applications.

## FEATURES & BENEFITS

- 100% solvent free silicone
  - Excellent weatherproof and UV resistance
  - No cracking or shrinking
  - Water resistant
  - Very low odour and non-corrosive
  - Excellent flexibility and adhesion to numerous porous and non-porous substrates
  - Suitable for large scale construction and glazing applications
  - Resistant to temperature extremes (-60 °C to +180 °C)
  - Fast curing, low modulus, high elasticity – 25% movement capability
  - High viscosity non slump formula
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## APPLICATION AREAS

- Non-corrosive joint sealing for uPVC windows and doors, walls ,expansion joints
  - Glass to glass and glass to aluminium sealing
  - Sealing applications in kitchens and bathrooms
  - Sealing of connection joints in building industry (brick, wall, concrete, PVC, wood, glass etc.)
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## USE INSTRUCTIONS

- Ensure that surfaces to be sealed are clean, dry and grease free
- The application temperature must be between +5°C and +40°C
- In order to have a secure joint configuration the depth of the joint must be much less than it's width, minimum dimensions are 5x5 mm. For wider joints the joint depth should be preferably half the width and is adjusted by the use of backing material
- After application the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed mechanically
- Recommended joint widths are >10 mm and < 35 mm
- Joint width and depth ratio should be about 2:1

**Consumption (approx.)**

Joint Width	10mm	15mm	20 mm
Joint Depth	6mm	8mm	10 mm
Length of Bead	5 meters	2.5 meters	1.5 meters

**Surface Preparation**

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly dust then degrease as above
Wood	Lightly dust surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

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**STANDARDS**

Meets or exceeds the requirements of the following specifications:

- French VOC requirements for class A+
- Tested to ISO11600 F/G 20LM.
- CE marked for EN 15651 for façade, and glazing applications (DOP No: 0310)
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

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**RESTRICTIONS;**

- Apply in well ventilated areas
- Not over paintable
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers
- It is not suitable for food contact applications
- Do not use in swimming pool joints.
- Can yellow if exposed to bleach or HCL based brick cleaners whilst curing.

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**STORAGE AND SHELF LIFE;**

The shelf life is 12 months if stored in unopened original packaging . Store in a dry place with temperatures between +5°C and +25°C.

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## SAFETY & DISPOSAL

Inhalation of the sealant vapour for a long period must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for a long period. Cured silicone rubber bears no risk to health. Application temperatures should range between +5°C and +25°C. Check MSDS guidelines for disposal and further information concerning safety.

## PROPERTIES

Basis	: Silicone Polymer(Oxime)	
Curing System	: Neutral	
Density (Transparent)	: 1.03± 0.03 g/ml	(ASTM D 792)
Density ( Colors)	: 1.07± 0.03 g/ml	(ASTM D 792)
Hardness Shore A (Transparent)	: 21 +/- 5 units	
Hardness Shore A (Other Colors)	: 21 +/- 5 units	
Tensile Strength	: ≤ 0,4 N/mm <sup>2</sup> (23°C and 50% R.H)	(ISO 8339)
Skin formation	: 5-10 min. (23°C and 50% R.H)	
Curing Rate	: Min. 2,5 mm/day (23°C and 50% R.H)	
Elongation At Break (Transparent)	: ≥ 350%	(ASTM D412)
Elongation At Break (Colours)	: ≥ 300%	
Sagging	: 0 mm	(ISO 7390)
Temperature Resistance	: -60°C to +180°C	
Application Temperature	: +5°C to +40°C	

## PRODUCT

Product Type	Volume	Packaging
Transparent, Dark Brown, Black, Anthracite Grey (Ral 7016 ) Cream ( Ral 9001)	280ml	25 x 280ml

## DISCLAIMER

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