



**Product description**

HISEAL provides a tough, elastic, UV resistant and weatherproof seal in exterior joints in concrete, brick and concrete block-work construction. HISEAL is a high performance, 1-part polyurethane construction sealant ideal where extra toughness and resistance to the elements is needed.

**Recommended uses**

- Sealing expansion joints in:
  - Tilt-up and precast concrete construction
  - Brick and concrete block work
  - Tiled walls
  - In-situ concrete
- Perimeter sealing around window and doorframes
- Tiled walls
  - Internal corners
  - Expansion joints
- Interior / Exterior

**Also suitable for**

- Office partitioning
- Shop fitting
- Wet-area fixtures (eg Baths, Sinks)
- Shower installations
- Architraves, skirting boards
- Facade panels
- Sheet metal lap joints

**Suitable for use on**

- Concrete and cement
- Brick
- Concrete block
- Aluminium
- Ceramic tiles
- Laminate
- Stainless steel
- Galvanised steel
- Timber
- Particleboard
- MDF
- Plywood
- Plasterboard

**Features and benefits**

- UV and weather resistant
  - Excellent resistance to aging and weathering
  - Permanently flexible
  - Will not shrink or crack
- Thixotropic - no sagging or running
- Excellent flexibility - joint movement  $\pm 25\%$
- Acoustic rated
- Suitable for contact with drinking water - AS4020-1994
- Non-corrosive neutral cure
- Paintable with acrylic based surface coatings
- AS1157-1972 fungus and mildew resistant

**Precautions**

- Do not use in
  - Joints subject to prolonged immersion in water eg swimming pools
  - Contact with chlorinated water
  - Joints subject to foot or vehicle traffic
  - Marine applications
  - Contact with materials containing bitumen
  - Prolonged contact with hydrocarbons
  - Glazing applications
  - Below grade applications
- HISEAL may not cure when used in confined or air free spaces
- Do not apply solvent or oil-based paint to HISEAL
- Do not use Teflon, polyethylene or polypropylene
- Pre-test for staining or discolouration on unpredictable absorptive surfaces such as marble, limestone or granite.

**Typical Properties**

Property	Typical Value
Appearance	Non-sag smooth thixotropic paste
Chemical type	Polyurethane
Application temperature	+5°C to +35°C
Tool working time	30mins at 20°C
Tack free time	6 to 12 hours
Cure rate	2mm per 24 hour period
Max. joint movement	$\pm 25\%$
Max. joint width	50mm
Elongation at break	900%
Cure hardness	Shore A30
Tensile strength	1.3N / mm <sup>2</sup>
Service temperature	-40°C to 70°C
Chemical resistance	Dilute alkalis and acids. Temporary contact with petrol, diesel and other hydrocarbons.

### Joint preparation

Joint faces must be sound, flat and free of surface irregularities. Saw cut or reface any joint faces that do not meet these requirements with a suitable epoxy or cement mortar.

For a neat finish, cover the face of joint edges with masking tape before applying HISEAL. To avoid three-sided adhesion, ensure a bond breaker, such as Ramset Backer Rod is used in the joints prior to application of HISEAL.

### Priming

Prime non-porous surfaces such as aluminium and powder coated steel prior to application of HISEAL.

If in doubt about the suitability of the surface, test adhesion before committing to the whole job.

- Apply bead of HISEAL to job surface
- Use spatula to force sealant bead into contact with surface Allow to cure through (See Curing)
- Assess bond by removing sealant

### Tooling time

Tooling should be completed within 30 minutes of application.

Excess sealant should be wiped from all surfaces with a cloth saturated in xylene before it cures. Cured HISEAL is difficult to remove without affecting the substrate it has been applied to.

Masking around joints before applying sealant will make clean up easier. Remove masking tape before sealant skins (about 30 minutes).

### Curing

HISEAL is rain resistant in vertical joints after 24 hours from application.

Cure Rate is 2 mm of thickness per 24-hour period. Full cure through is achieved within 7 days.

### Painting

Apply water-based Acrylic surface coatings after 24-hours. Do not use oil or solvent-based coatings on HISEAL.

### Clean up

Clean up uncured material and equipment immediately after use using xylene. Cured HISEAL is difficult to remove via chemical means and mechanical means may be necessary.

### Colours, Pack Sizes and Order Numbers

Colour	Pack Size	Order Number
Grey	300ml cartridge	HYSLGYG375
Grey	600ml sachet	HYSLGYG720

### Fire

HISEAL is not flammable for transport and storage. Cured and uncured HISEAL is combustible in the event of fire.

### Storage

Store between 5°C and 30°C. Shelf life is 1 year in original unopened container.

### Health and safety

Avoid contact with the skin, eyes and avoid breathing vapour. For more detailed information refer to the Material Safety Data Sheet. Call 0800 726 738 or visit the website [www.ramset.co.nz](http://www.ramset.co.nz)