



## GSA HY940 FLEXIBLE JOINT SEALANT

### Product description:

GSA HY940 Flexible joint sealant is a one component hybrid moisture curing, high performance, low modulus joint sealant. It cures to form a flexible, durable and weather proof sealant and exhibits excellent adhesion to a wide range of common construction substrates.

### Key Performance Properties:

- Good adhesion to many substrates
- Movement capability of  $\pm 25\%$
- Free of isocyanates, solvents and silicone
- Non sag on vertical and soffit joints of up to 30mm in width
- Great workability
- Good durability and weather resistance
- One component - no mixing required
- Non corrosive
- Suitable to be overcoated with many paint systems

### Specification:

Shore -A hardness: 24 shore A (after 28 days)

Secant tensile modulus: 0.35N/mm<sup>2</sup> @100% elongation (23°C)

0.50N/mm<sup>2</sup> @100% elongation (-20°C)

Elongation at break: 700% approx

Elastic recovery: 90% approx

Tear Propagation Resistance: 5.0 N/mm approx

Movement capability:  $\pm 25\%$

Application temperature: +5°C to +40°C, min 3° above dew point temperature

Substrate temperature: +5°C to +40°C

Curing rate @23°C/50%RH: 3mm / day

Skin Formation @23°C/50%RH: 60 mins approx.

Backing material: Closed cell polyethylene foam backing rod

Sag Flow: 0mm (20mm profile, 50°C)

Density: 1.25kg/L approx.

### Application:

GSA HY940 is designed for use in movement and connection joints on porous substrates. It is also suitable for use on general interior and exterior sealing applications.

**Joint Design:** The joint width must be designed to suit the joint movement capability of the sealant. The joint width shall be  $\geq 10\text{mm}$  and  $\leq 40\text{mm}$ . A width to depth ratio of 2:1 must be maintained. (for exceptions see table below).

Standard joint widths for joint between concrete elements		
JOINT DISTANCE	MIN JOINT WIDTH	MIN JOINT DEPTH
2	10	10
4	15	10
6	20	10
8	30	15
10	35	17

All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction.





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### Surface Preparation:

The surface must be solid, clean, dry and free from grease and dust. GSA HY940 will adhere without primer and/or activators. However, when using GSA Flexible Joint Sealant in high performance applications such as highly stressed joints, multi-story buildings, extreme weather exposure it is recommended to use a suitable primer and/or activator. Insert a suitable backing rod to the required joint depth.

### Directions:

GSA HY940 Flexible Joint Sealant is supplied ready to use. Insert the foil pack into the sealant gun and extrude GSA HY940 into the joint making sure it comes into full contact with the sides of the joint and avoids any air entrapment. GSA HY940 must be firmly tooled against the joint sides to ensure adequate adhesion.

Where neat or exact joint lines are required the use of masking tape is recommended. Remove the tape within the skin formation time. Use a compatible tooling agent to smooth the joint surface. Do not use tooling products that contain solvents. If GSA HY940 is dry tooled it will show a slightly structured concrete - like surface. If it is wet tooled it will show a smooth surface.

### Consumption guide

JOINT LENGTH PER 600ML PACK	JOINT WIDTH	JOINT DEPTH
6 M	10MM	10MM
4 M	15MM	10MM
3 M	20MM	10MM
2 M	25MM	12MM
1.3M	30MM	15MM

### Paintability:

GSA HY940 Flexible Joint sealant is paintable with most conventional paint systems. Paint compatibility testing is recommended prior to application. For best results it is recommended to allow the sealant to fully cure prior to coating. Note: The use of a non flexible paint system may impair the elasticity of the sealant and lead to cracking of the paint film.

### Limitations:

- Not suitable for use on natural stone, bituminous substrates, natural rubber, EPDM rubber or any building materials which may bleed oils, plasticizers or solvents that could attack the sealant.
- Not suitable for use to seal joints in or around swimming pools.
- Not suitable for joints under water pressure or for permanent water immersion.

### Packaging:

600ml foil sausage

20 units per carton - 960 units per pallet

### Storage / Shelf life:

In unopened original packaging and stored in a cool dry environment between +5°C and +25°C, shelf life is 18 months after production date.

### First Aid

Please refer to the Safety Data Sheet which is available at [www.cwbrands.com.au](http://www.cwbrands.com.au)



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### Disclaimer

CW Brands Pty Ltd believes that the information in this technical data sheet is an accurate description of the typical uses of the product. The data and statements are based on our research and development work and is to the best of our knowledge true and accurate. The user must ensure suitability of the product(s) in their application prior to use in particular to determine its performance, efficiency and safety. The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Products conform solely to the information contained in this and other related CW Brands Pty Ltd publications.

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