

# Technical Data

## HYBRIFLEX 55

Building and Construction Adhesive/Sealant



### Description

HYBRIFLEX 55 is a one part, neutral cure, hybrid polymer based adhesive/sealant which adheres to most common building substrates. Used for general bonding and sealing in industry, engineering, construction, automotive, marine and O.E.M markets.

### Benefits

- High bond strength.
- Permanently Flexible.
- Over paintable with most common paint types.
- Can be applied to wet surfaces.
- Chemical resistant to acids/alkalis, petrol etc
- Excellent initial grab properties.

### Recommended For

Bonding and sealing in construction joints. Automotive seam sealing and bonding. Jointing cladding panels. Internal/external pointing of window and door frames. For expansion joints in brick, stone and concrete. Parapet and roofline sealing. Weather sealing in most external applications.

### Specification Compliances

HYBRIFLEX 55 has excellent primerless adhesion to most common building substrates. When overpainting, a compatibility test should be carried out prior to full application. Neutral cure system, silicone, halogen and Isocyanate free.



### Available in

600ml Foil Packs, available in the following colours:

White

### Storage

Store in cool, dry conditions between +5°C and +25°C. Storage outside these parameters will dramatically reduce shelf life.

### Shelf Life

12 months from date of manufacture when stored as directed.

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### Health & Safety

Consult MSDS for full list of hazards.

### Joint Dimensions

For maximum movement accommodation, it is recommended that:

1. The sealant joint depth should be no less than 5mm
2. Joint depth should be 5mm for joints up to 10mm wide
3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

Joint depth may be adjusted to the correct size using EVERBUILD JOINT BACKER ROD.

### Surface Preparation

All surfaces must be cleaned and be free from dust, grease and frost. For most substrate, priming is not required, (except when area is intermittently or permanently immersed).

Non porous surfaces should be cleaned and degreased with a suitable proprietary cleaner such as Everbuild Surface Cleaner.

If priming is required prepare the substrate using Everbuild Primer P1 for porous surfaces or Everbuild Primer NP2 for Non Porous surfaces.

If in doubt contact Technical Services for advice.

### Specific Data

Sg	Approx 1.5g/cm <sup>3</sup>
Cure Rate	Approx 2-3mm/24 hours
Solvent content;	Nil
Colour	White
Shrinkage (ISO 10563)	< 2%
Viscosity: (HBDVII+/S70/10rpm)	Ca: 170,000-300,000cps (high)
Tack free	Ca. 20-90 mins at 23°C and 50% RH
Skin Formation time / 20°C/50% RH	30-45 mins
Movement accommodation:	+/-20%
Modulus at 100% elongation	1 MPa
Elongation at break	>100%
Tensile strength at break	1.5 MPa
Elastic Recovery	>75%
Hardness (shore A)	55-60(1 week)
Chemical resistance (hypochlorite; dilute acid; dilute alkali; detergent; saline 2 weeks immersion)	Excellent
Humidity and water resistance	Excellent
Application temps	+5+35°C
Temperature resistance	-40 to +150°C

### Joint Width Calculation

Joint widths are calculated as in BS6213:

$$\text{Width} = \frac{M \times 100}{F} + M$$

Where M = movement and F = movement accommodation Factor

### Primer

Priming is not always necessary; but if in doubt use a suitable primer as directed prior to application; especially when joints are to be immersed or require a high movement capability.

### Coverage

Joint Size (mm)	Litre per metre run	Metres per 600ml Foil
5 x 5	0.025	24.00
5 x 10	0.050	12.00
10 x 10	0.100	6.00
15 x 10	0.150	4.00
20 x 10	0.200	3.00

### Limitations

- Do not use on surfaces that bleed oils or plasticizers.
- Do not use in conjunction with bitumen or asphalt.
- Do not use in aquaria.
- Test compatibility with all substrates and paint systems prior to full scale use. May increase drying time of alkyd paints.
- Glazing applications: Maximum UV resistance will be achieved by overpainting with suitable paint
- Always use in conjunction with mechanical fixings for overhead applications.
- Do not use on Polypropylene, Polyethylene or Teflon.
- Use against natural stone: this product may cause some staining. Always check compatibility before use. If in doubt; use HYBRIFLEX NS
- Do not use on polythene backed safety mirrors.
- As quality of uPVC; ABS and most plastics varies dramatically, always carry out adhesion tests prior to full scale use. It is the user's responsibility to determine suitability for use. If in doubt, please contact Technical Services for advice.

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