

Technical Data

HYBRIFLEX 480

General Purpose Building Sealant



Description

HYBRIFLEX 480 is a one part general purpose mid modulus building sealant based on hybrid polymer technology.

Benefits

- Will adhere to light damp surfaces
- May be used on trafficked floor joints (after suitable cure period) on joints less than 15mm wide
- Over paintable with common acrylic based paints (less so with alkyds)

Recommended For

Perimeter pointing of window/door frames. For expansion joints in brick, stone and concrete. Weather sealing applications. For parapet and roofline sealing. Weatherproofing sealing to most external applications. Construction and dilation joints where stress does not occur until fully cured. Trafficked floor joints less than 15mm wide.

Specification Compliances

HYBRIFLEX 480 may be used as a general purpose joint sealer for floors and walls and as a perimeter edge sealant in suitable glazing applications. HYBRIFLEX 480 is over paintable with suitable compatible paints. Preliminary test required before use.

Conforms to ISO 11600 Class F25HM.



Available in

380ml Cartridges in the following colours:

White
Grey

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 or BOND BREAKING TAPE in cases where there is not enough depth to use Backer Rod.

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

PVC/ Aluminium/ Glass: primer not normally necessary.

Mortar: Primer with Primer P1.

Coverage

Joint Size (mm)	Litre per metre run	Metres per 380ml Cartridge
5 x 5	0.025	15.20
5 x 10	0.050	7.60
10 x 10	0.100	3.80
15 x 10	0.150	1.90
20 x 10	0.200	1.27

Surface Preparation

All surfaces must be cleaned and be free from dust, grease and frost. Surfaces may be damp, but have no standing water. For most substrates, priming is not required, (except when area is intermittently or permanently immersed). Joints should be designed in accordance with BS6093. Square cross sections are preferred with a minimum 10mm depth.

NEW JOINTS: Concrete joints should be sawn, all debris flushed away after cutting and joints allowed to dry.

RENOVATING OLD JOINTS: Remove all old sealant from existing joint and clean back to sound concrete by wire brushing, grinding or shot blasting.

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 or as a mirror adhesive.
- 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
- Do not use in joints that are to be continually immersed.
- Do not use on Polypropylene, Polyethylene or Teflon.
- Use against natural stone: this product contains plasticizers which may cause some staining. Always check compatibility before use. If in doubt, use HYBRIFLEX NS
- Do not use for bedding double glazed units – use SILICONE 996 / 825.
- Yellowing can occur in predominantly dark conditions
- 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.

Specific Data

Sg	Approx 1.5g/cm³
Cure Rate	Approx 2-3mm/24 hours
Solvent content;	Nil
Colour	White or grey
Workability	Good, and grooves remain after application
Viscosity: (HBDVII+/S70/10rpm)	Ca: 150,000-300,000cps (high)
Tack free	Ca. 60-120 mins at 23°C and 50% RH
Skin Formation time / 20°C/50% RH	30-45 mins
Movement accommodation:	+/-20%
Modulus at 100% elongation	0.72N/mm²
Elongation at break	200%
Tensile strength at break	1.1N/mm²
Elastic Recovery	>75%
Hardness (shore A)	30-40 (1 week)
Chemical resistance (hypochlorite; dilute acid; dilute alkali; detergent; saline 2 weeks immersion)	Excellent
Humidity and water resistance	Excellent
Application temps	+5-+50°C
Temperature resistance	-50 to +150°C

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