

# PRODUCT DATA SHEET

# EVERBUILD TECNIC® HYBRIFLEX 480

## GENERAL PURPOSE BUILDING HYBRID SEALANT

### PRODUCT DESCRIPTION

EVERBUILD TECNIC® HYBRIFLEX 480 is a one part general purpose high modulus building sealant based on hybrid polymer technology.

### USES

- 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.

### CHARACTERISTICS / ADVANTAGES

- Will adhere to 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

<b>Solvent content</b>	Nil
<b>Toolability</b>	Good
<b>Viscosity:</b>	Ca: 120,000- 300,000 cP
<b>Resistance</b>	-50 to +100°C

### APPROVALS / STANDARDS

Conforms to ISO 11600 Class F25HM and is CE Marked under EN15651 parts 1, façade and 4, pedestrian walkways under class F25HM and PW25HM.

### PRODUCT INFORMATION

<b>Packaging</b>	380ml Cartridge
<b>Colour</b>	White and Grey
<b>Shelf Life</b>	12 months from date of manufacture when stored as directed.
<b>Storage Conditions</b>	Store in cool, dry conditions between +5°C and +25°C. Storage outside these parameters will dramatically reduce shelf life.
<b>Density</b>	Approx 1.4g/cm <sup>3</sup>

### TECHNICAL INFORMATION

<b>Shore A Hardness</b>	35-45 (1 week)
<b>Tensile Strength</b>	Tensile strength at break - 0.9N/mm <sup>2</sup>
<b>Elongation at Break</b>	>200%
<b>Elastic Recovery</b>	>70% (ISO7389)
<b>Movement Capability</b>	+/-25% (ISO9047)

<b>Chemical Resistance</b>	Chemical resistance (hypochlorite; dilute acid; dilute alkali; detergent; saline 2 weeks immersion) - Excellent
<b>Resistance to Weathering</b>	Humidity and water resistance - Excellent
<b>Joint Design</b>	<p><b>Joint Dimensions</b> For maximum movement accommodation, it is recommended that:</p> <ol style="list-style-type: none"> <li>1. The sealant joint depth should be no less than 5mm</li> <li>2. Joint depth should be half width e.g. 20mm width would have a depth of 10mm wide</li> <li>3. Joint depth may be adjusted to the correct size using EVERBUILD JOINT BACKER ROD.</li> </ol> <p><b>Joint Width Calculation</b> Joint widths are calculated as in BS6213: Width = <math>\frac{M \times 100}{F} + M</math> Where M = movement and F = movement accommodation Factor</p>

## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	5 to 50°C
<b>Curing Rate</b>	Approx 2mm/24 hours
<b>Skin Time</b>	20-35 mins
<b>Tack Free Time</b>	Ca. 60-90 mins at 23°C and 50% RH

### SUBSTRATE 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 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.

### APPLICATION METHOD / TOOLS

PVC / Aluminium / Glass: primer not normally necessary. If indicated by adhesion test use primer NP2.  
Mortar: Prime with Sikaflex Primer 3-N.

### 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.
- 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 Sika Primer 3N.
- Do not use for bedding double glazed units – use SIL-

ICONE 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.
- In areas of high UV some darkening/discoloration may occur. This does not affect the product performance.

### VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

### ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal

conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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