



ProFlex™

Technical Data Sheet

Product:

ProFlex™ is a high quality low modulus, elastic, one component sealant based on Hybrid methoxysilyl-terminated Polymer and silane.

Characteristics:

- Low modulus meaning it places very little stress on the substrate.
- Easy application.
- Stays elastic after curing.

Why Hybrid Polymer:

Features

- ◆ Does not bubble on damp concrete.
- ◆ Gunable at a low temperature.
- ◆ No Isocyanates (non carcinogenic)
- ◆ UV Stability.
- ◆ Paintable with acrylic paints.
- ◆ Excellent adhesion to typical construction substrates
- ◆ Low Odour.
- ◆ Non-Staining.
- ◆ Environmentally friendly.

Superior Adhesion to

- ◆ Glass.
- ◆ PVC.
- ◆ Aluminium.

Applications:

- All usual building joints that require a high joint movement sealant.
- Connection joints between window, doorframes and walls.
- Concrete Expansion joints.

Packaging:

Foil sausages 600mL.

Colours:

Beige, Black, Bronze, Concrete Grey, Epping Grey, Lawn Green, Light Brown, Ocean Blue, Off White, Redwood, Sandstone and White.

Shelf life:

12 months in unopened packaging providing it is stored in a cool and dry storage place at temperatures between +5°C and +25°.

Surfaces:

- Concrete, most metals, polyester coatings and many plastics.
- ProFlex™ does not adhere to silicone, polypropylene, polyethylene or bitumen.

Surface Preparation - Preparation:

All substrates must be clean, dust free, dry and free of oil grease wax etc. Clean impervious surfaces with 2 wipe solvent clean and abrade porous surfaces. Details of cleaning methods are available from APTC Australia.

Preparation - Primer:

- Generally ProFlex™ will provide excellent adhesion to many typical construction substrates by using normal surface preparation.
- Where adhesion is critical to the success of a project APTC Australia recommends pre-testing of adhesion prior to the commencement of the project.

APTC Australia recommends preliminary compatibility and adhesion testing for critical applications.

Joint Design

Avoid 3 sided adhesion. If there is potential for 3 sided adhesion use a bond breaker tape or backing rod to eliminate three sided adhesion.

Refer to APTC Australia for technical advice on joint design.

Joint Size:

Minimum Width: 5mm.

Maximum Width: 30mm.

Minimum Depth: 5mm.

For best performance the depth of the joint should be half the width for joints above 10mm.

Physical Properties

	Method	
Base		Hybrid Polymer
Consistency		Stable Paste
Curing System		Moisture Cure
Skin formation	(20°C/65% R.H.)	≈90 min.
Curing Rate	(20°C/65% R.H.)	≈2.5mm/24h
Hardness	(Shore A)	≈25
Specific Gravity		1.3g/mL
Temperature Resistance		-30°C to +70°C
Application Temperature		+5°C to +40°C
Elastic Recovery		>80%
Joint Movement Capability		25%
Modulus 100%	DIN 53504	≈0.35MPa
Elongation at Break	ISO 8339	>350%

Application:

Use a good quality barrel caulking gun.
Application temperature is to be between +5°C to +40°C
Clean up excess sealant with white spirit immediately after use.
Repair damaged sealant with B&L ProFlex™.

Health-and Safety Recommendation:

Apply the usual industrial hygiene. Refer to B&L Quality Products ProFlex™ Safety Data Sheet for details.

Pre-test for Adhesion:

Pre-testing for adhesion is intended to eliminate potential field problems. Variability on the quality, type, cured properties and surface contaminants can affect adhesion. Pretesting will aid in determining the proper surface preparation method.

Remarks / Application Limitations

Oxidative drying paints may be affected by the sealant which in turn could affect the drying time of the paint.

Due to the diversity of paints available we recommend that compatibility and adhesion tests are undertaken before application of the sealant.

Please note that the sealant is elastic and most paints are not, therefore the painted surface may crack in joints with movement.

B&L ProFlex™ must not be applied to frost-bearing surfaces or if temperature falls below freezing

The suitability of this product, for each intended use, must be determined by the purchaser prior to application of the sealant. Whilst Hybrid Polymer based sealants have good chemical resistance, they are not resistant to all chemicals. Contact APTC Australia where chemical resistance is critical to the success of your project.

The sealant is not recommended for applications that will be under-water or in contact with high levels of chlorine or swimming pool surrounds.

Remark:

The information contained in this documentation is the result of our experiments and our experience and has been submitted in good faith. Due to the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary testing before using the sealant.



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