



# ProFlex LM

## Technical Data Sheet

### Product:

ProFlex LM is a high quality, elastic, one component sealant and Adhesive based on Hybrid Polymer.

### Characteristics:

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

### Why Hybrid Polymer:

#### Features

- ◆ Does not bubble on damp concrete.
- ◆ Low Temperature Gunability.
- ◆ UV Stability.
- ◆ Paintability.
- ◆ Low Odour.
- ◆ Non-Staining.
- ◆ Environmentally friendly.

#### Superiour 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:

Concrete Grey., White, Black and Epping Grey.

### 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 LM does not adhere to polypropelyne, 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 B & L Quality Products.

### 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 B&L Quality Products recommends pre-testing of adhesion, prior to the commencement of the project.

B&L Quality Products recommend preliminary compatibility and adhesion testing for critical applications.

### Joint Design

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

Refer to B&L Quality Products 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		1.35g/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 LM.

### Health-and Safety Recommendation:

Apply the usual industrial hygiene. Refer to B&L Quality Products ProFlex LM Material 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 effected by the sealant, which in turn could affect the drying time of the paint.



Because of 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, most paints are not. Therefore the painted surface may crack in joints with movement.

B&L ProFlex LM 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. Whereas Hybrid Polymer based sealants have good chemical resistance, they are not resistant to all chemicals. Refer to B&L Quality products where chemical resistance is critical to the success of your project.

The sealant is not recommended for applications that will be under-water, 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. Because of 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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