



# Pro MS Firerate

## Technical Data Sheet

### **Product:**

B&L PRO MS FIRERATE LIMESTONE is a high quality single component fire rated joint sealant with high adhesive strength. When cured it will provide a tough, flexible seal capable of achieving  $\pm 25\%$  joint movement. This sealant provides excellent elastic recovery and excellent weather resistance assuring a long term fire rated joint seal.

It is based on MS-Polymer<sup>®</sup>, chemically neutral and fully elastic. For use in high movement joints in construction, automotive, marine and aerospace areas where a tough flexible rubber is required with good fire retardant characteristics.

### **Characteristics:**

- Fire Rated for up to 4 hours to AS1530 Part 4.
- High bond strength on nearly all surfaces.
- Excellent adhesion on porous substrates.
- High performance mechanical properties.
- Flexible elastic rubber.
- Straightforward application even in adverse conditions.
- No bubble formation within sealant (in high temperature and humidity applications).
- Primerless adhesion on many substrates (except where water pressure may occur).
- Very easy to tool and finish.
- Colour stability and UV resistant.
- Ecological advantages – free of **isocyanates**, solvents, and acids.
- Minimal health and safety considerations.
- Over-paintable with all water based paints and many other systems.
- Excellent weather resistance in all climates.
- No staining of porous materials such as natural stone, granite (for marble please test a small area).

### **Applications:**

Expansion and connection joints in the building industry.  
Sealing of joints in prefabricated buildings.

Movement joints in high rise constructions.  
Sealing between window frames and door frames.  
Flexible joints in marine applications.  
Flexible bonding in caravans and mobile structures.  
Exposed movement joints on all usual building substrates.

### **Colour:**

Limestone

### **Packaging:**

600 ml foil sausage, 20 foils to a carton.

### **Shelf life:**

12 months in unopened packaging in a cool and dry storage place at temperatures between  $+5^{\circ}\text{C}$  and  $+25^{\circ}\text{C}$ .

### **Surfaces:**

Concrete, most metals, polyester coatings and many plastics  
Pro MS Firerate does not adhere to glass or polyethylene

### **Surface Preparation:**

All substrates must be clean, dust free, dry and free of oil grease wax etc. Remove any foreign matter such as wax, release agents, laitance, protective coatings, dust and old sealants. 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:**

Very warm and moist climates can affect the cure, tooling and adhesion of sealant. Check with your distributor before applying in hot humid climates. Generally there is no requirement for a primer on non-porous surfaces.

## Physical Properties

Base Ò		SMX-technology
Consistency		Stable Paste
Curing System		Moisture Cure
Skin Formation (*)	(20°C/50% R.V.)	Approx. 10 min.
Curing Rate (*)	(20°C/50% R.V.)	2 mm/24h
Hardness	(DIN 53505)	20 ± 5 Shore A
Specific Gravity	(DIN 53479)	1.57 g/ml
Maximum Deformation		± 25 %
Elasticity Modulus 100 %	(DIN 53504)	0.33 N/mm <sup>2</sup>
Elongation at break	(DIN 53504)	430 %
Elastic recovery	(ISO 7389)	> 70 %
Temperature Resistance		-40°C to +90°C
Tear Strength	(DIN 53504)	0.82 N/mm <sup>2</sup>

Some non porous surfaces may contain wax and may require a Surface Activator.

### **Joint dimensions:**

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

### **Application:**

Method: Manual– battery or pneumatic caulking gun.

Application temperature: +5°C until +35°C.

Use a backing rod to improve wetting out and control the joint depth.

Cleaning: White Spirit immediately after application and before curing.

Tooling: Spray a solution of soapy water before skin formation to improve surface finish.

Repair with: B&L PRO MS FIRERATED LIMESTONE

### **Resistance to chemical agents:**

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to

aromatic solvents, concentrated acids, chlorinated hydrogens.

### **Health- and Safety Recommendation:**

Apply the usual industrial hygiene. Refer to the specific Material Safety Data Sheet for Pro MS Firerate to obtain specific details. This is available from B&L Quality Products or your distributor.

### **Remarks:**

BL PRO MS FIRERATED LIMESTONE may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.

### **Approvals:**

When tested by Warrington to AS1530 part 4 : Pro MS Firerate achieved up to a 4 hour fire rating.

**Remark:** The information contained in this document is the result of extensive testing and our experience to date, 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 experiments.



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