

# Murolast

## Elastomeric Membrane

Location = Exterior

### Suitable Surfaces

Refer to specific treatment for the appropriate substrate

- 1 = Previously painted surfaces
- 2 = Bagged masonry, new and old concrete, compressed fibre sheeting, weatherboard, timber, clay or concrete bricks or blocks and AAC
- 3 = Powdery concrete

Other surfaces may be appropriate, contact your distributor for specification

### Murolast Substrate Preparation and Priming

#### 1. **Previously Painted Surfaces**

Mouldy and degraded surfaces previously painted should have all loose and flaking material removed, then be treated with a bleach/water solution at 1:8 dilution. Allow this to sit on the surface for 24 hours then wash the surface with a high pressure water cleaner (1000-2000psi). This surface should then be primed with one coat of Murobond Primer.

#### 2. **New Cement Render, Bagged Masonry, New and Old Concrete, Compressed Fibre Sheeting, Weatherboard, Timber, Brickwork**

Apply one coat Murolast Superseal (a single component, solvent based general purpose

primer which not only provides a keying substrate for the Murolast, but also seals the substrate rendering it impervious to water), by brush, roller or spray. Ensure that the surface is free of dust, dirt and loose particles and that the surface is dry.

Cement finishes such as render, bagging and concrete must be allowed to cure for a minimum of 3 weeks before application of Murolast.

#### 3. **Powdery Concrete**

Powdery concrete is a difficult problem to address, however, with the application of Superseal, friable, crumbling surfaces can be rectified with one to two coats. Check with the manufacturer.

# Applying Murolast

Following preparation of substrates (as previously outlined) Murolast Elastomeric Membrane is applied as follows:

## **Brush**

Lay on the first layer randomly in a criss cross brush stroke, then finish by brushing in one direction only. Similarly lay on the second layer, then finish by brushing in one direction only but at right angles to the first coat.

## **Roller**

Roll an even film over the surface maintaining a wet edge and ensuring that the roller is always kept wet. Stop and start, as far as possible, at joints in the formwork or at expansion joints. Do not roll over material that has begun to set as this can cause an uneven appearance in the finished job. Different rollers will create different textures.

## **Spray**

Airless spray equipment must be capable of delivering 3000 psi fluid pressure at a ratio of 30:1. A nozzle tip of 0.031 inches is recommended, however, different sized tips can be used to create different textures.

## **Coverage**

Surface type and texture affects the coverage rate. Generally the recommended spreading rates are:

Vertical surfaces: 4 sq m per litre/coat.

Horizontal surfaces: 2 sq m per litre/coat.

Apply a minimum of two coats in all applications. Allow at least 8 hours, or overnight, before applying the second or subsequent coats.

## General Precautions

### **Paint Application**

Paint should be thoroughly stirred prior to application. It is recommended to divide large areas by tape or false expansion joints to enable contractors to maintain a wet edge (generally about 3 metres high by about 5 – 8 metres long).

### **Re-touching**

Re-touching may show through texture and sheen and should be avoided.

### **Colour & Tinting**

It is the responsibility of the contractor to ensure colour consistency. It is recommended that sufficient material to complete the project be ordered where possible to eliminate possible colour variation.

### **Temperature**

Murolast should not be applied where surface or air temperature is below 8°C or above 35°C.

### **Initial Protection**

Adequate protection should be provided against rain and sub-zero temperatures for a period of at least 48 hours after application. Protection against mechanical abrasion should be provided for at least seven days after application.

### **Testing**

Murolast has been subjected to accelerated weather testing and aging, tests for chemical resistance, water permeability and microbiological degradation and has shown no evidence of degradation in any of these tests. Key points:

### **Accelerated Weather Testing**

Samples of cured Murolast were subject to 1000 hours of accelerated weather testing in a Q.U.V. Accelerated Weathering Tester incorporating ultra-violet radiation with the following results:

Film integrity: Unimpaired.

Flexibility: Excellent.

Colour: Negligible change.

Gloss: 20% reduction.

The test was conducted in accordance with Method No.26 Defence Specification DEF/1053.

### **Salt Spray Test**

Samples of Murolast were tested in accordance with Defence Specification DEF/1053, Method No.24 for a period of six weeks.

## Murolast General Precautions Continued

The samples displayed no evidence of degradation of the surface or reduction in flexibility or appearance.

### **Water Vapour Permeability**

Samples were treated in accordance with the method prescribed by B.S. 3177/1959. The test was conducted at an ambient temperature of 25°C and a relative humidity of 75%. Permeability: 1.92g/sq.metre/24 hours.

### **Ageing Test**

Samples were subjected to six months exposure at 80°C. At the completion of the test, the Murolast showed no measurable degradation. [Building Research Station Digest No.51 suggests that 14 days exposure at this temperature equates to one year weathering under average (Sydney) conditions].

### **Chemical Resistance**

Standard 12% solutions of acids and alkalis, including Nitric Acid and Caustic Soda, failed to cause breakdown of the membrane. Samples

were subjected to seven days totally immersed at 20°C.

### **Solvent Resistance**

Swelling of the membrane will occur if immersed in strong mineral solvents such as petrol.

### **Fire Rating**

Murolast is rated Class 1 in accordance with B.S. 476 Part 1/1953 and (S)AA in Part 3 external.

### **Microbiological Testing**

Samples were incubated for a testing period of 14 days at 33°C with several species of mould, fungi and bacteria. After the test period there was no bacterial, fungal or mould growth on any of the samples of Murolast.

### **Product Availability**

Packaging: 4 litre, 15 litre

Colour range: 12 standard colours, non standard colours made to order for 10 + drums

Superseal: 1, 4, 20 litre