

## **Blome Sealant 73** **Polyurea Expansion Joint Compound**

### **PRODUCT DESCRIPTION**

Blome Sealant 73 is a two-component, polyurea sealant with exceptional chemical resistance, high bond strength and excellent elongation properties, capable of up to 15% joint movement. It exhibits excellent resistance to most mineral acids, dilute organic acids, alkaline solutions, oxidizers and salts. It has excellent adhesion to a variety of substrates including concrete, tile, steel and brick. Blome Sealant 73 is highly resilient and retains its elastomeric properties over a temperature range of -80°F to 140°F. The material exhibits rapid curing characteristics for fast turnaround.

### **GENERAL USES**

Blome Sealant 73 is generally used as an expansion joint sealant where exceptional chemical resistance is required, such as acid brick and tile flooring, granite tank linings, secondary containment and monolithic floor toppings. Typical expansion joint applications include:

- Dairy and meat processing plant brick floors
- Chemical processing floors
- Caulking Granite Blocks in pickling tanks
- Chemical unloading areas

### **HANDLING CHARACTERISTICS**

Blome Sealant 73 is supplied as a two-component, fast curing material. It is installed using dual cartridge caulking tubes or with a plural component pump. Mixed Sealant 73 begins the curing process immediately upon mixing. The material exhibits rapid cure, with an initial set of 60 minutes, making it ideal for quick turnaround applications.

### **TYPICAL PROPERTIES**

#### **WET**

Solids by Volume:	100%
Pot Life at 75°F:	0 minutes
Tack Free at 75°F:	2-3 minutes
Initial cure at 75°F:	30 minutes
Return to service at 75°F:	2 hours

#### **CURED**

Color:	Gray, Black, Red, Tan
Elongation:	450 - 500%
Tensile Strength:	620 psi
Shore Hardness:	75-80A
Tear Strength, pli, Die C:	150 psi
Thermal Shock, Rapid Temperature Change:	No cracking or disbonding

## **PACKAGING & STORAGE**

Blome Sealant 73 is supplied as a two-component material, with a 1:1 mix ratio. The material is packaged in either dual cartridge caulking tubes or 10 gallon bulk units. Store unopened components in a dry place, out of direct sunlight and protected from the elements. Storage temperature should be 60-85°F. Properly stored, Blome Sealant 73 will have a minimum shelf life of 12 months. Refer to date of manufacture printed on the label.

## **SPECIFICATION GUIDE**

Fill all expansion joints with a two-component polyurea sealant meeting the formulation and performance characteristics of Blome Sealant 73 as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest Blome Sealant 73 data sheet and good industry practice.

## **APPLICATION GUIDELINES**

### **ENVIRONMENTAL CONDITIONS**

Ideally the floor surface and joint should be kept dry prior to installation of Sealant 73. However, if joint surfaces are damp, not wet, or could become damp, joint edges can be primed using an appropriate Blome Primer. Consult Blome Technical Representative for appropriate primer recommendations.

### **JOBSITE STORAGE OF MATERIALS**

Proper storage of Blome International products is important to a successful application. Follow these general storage procedures:

1. Store components (Part A and Part B) unopened, at 60-85°F, out of direct sunlight and protected from the elements.
2. Keep away from heat and flame. For the 24 to 48 hours just prior to use, adjust the storage temperature to 70-85°F to facilitate handling.

### **FLOOR JOINT DESIGN**

For maximum sealant performance, the following design principles should be followed. A closed cell backer rod should be inserted into the joint, after surface preparation, at a depth equal to  $\frac{1}{2}$  of the joint width. Minimum joint width and depth of sealant should be no less than  $\frac{1}{4}$ ". In food service applications or severe chemical environments, a full depth sealant joint is recommended.

### **SURFACE PREPARATION**

All surfaces must be clean and dry, void of oil, grease, rust, dirt, dust or other contaminants that may inhibit proper adhesion. For porous surfaces such as concrete, wire brushing is recommended, followed by vacuuming to remove all residual dust, and for non-porous surfaces such as steel, solvent wiping may be adequate.

### **MASKING & PROTECTION**

Since installation of Blome Sealant 73 should follow completion of the floor surface, it is advisable to mask the surfaces adjacent to the joint to minimize cleanup of the finished floor surface. Avoid foot traffic for 30 minutes and 1-4 hours for heavy vehicle traffic and chemical exposure.

## APPLICATION EQUIPMENT

Blome Sealant 73 is installed using either dual cartridge caulking gun with static mixer tip or using plural component pump with caulking tip. Dual cartridge caulking guns are available from Blome International, static mixer tips are supplied with each dual cartridge kit. Contact Blome International for specifications on plural component pump and related equipment.

## MIXING & APPLICATION

Mixing of Blome Sealant 73 takes place in the static mixer tip or plural component pump. For best results, install sealant with a continuous motion, trying not to stop during the length of the joint. This can result in unmixed sealant in sections of the joint. Fill joints from the bottom up to prevent voids within the sealant. Excess sealant is cut off to floor level.

## TOUCH-UP & RECOATING

Short filled joint sealant or air pockets are best repaired by full removal of the sealant in the affected area and re-installation of the sealant.

## CLEAN-UP

Hand tools and equipment may be cleaned with xylene or MEK after use. Cured material may be difficult to remove.

## CAUTION

Blome Sealant 73 may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the material safety data sheet.

## WARRANTY

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

## Coverage Rates -

**Linear Feet Per Gallon: Theoretical**

<i>Inches</i>	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1
$\frac{1}{4}$	308	154	103	72
$\frac{1}{2}$	154	77	51	38
$\frac{3}{4}$	103	51	34	26
1	72	38	26	19

**Linear Feet per 600ML Cartridge: Theoretical**

<i>Inches</i>	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1
$\frac{1}{4}$	53	27	18	13
$\frac{1}{2}$	27	13	9	7
$\frac{3}{4}$	18	9	6	4
1	13	7	4	3

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