



Surrounding You with Exceptional Protection

Blome Sealant 43 High-Elongation Polyurea Joint Filler Compound

PRODUCT DESCRIPTION

Blome Sealant 43 is a two-component, high elongation polyurea sealant with excellent chemical resistance, high bond strength and exceptional elongation properties. Blome Sealant 43 is designed for up to 20% linear movement of installed joint width. 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 43 is highly resilient and retains its elastomeric properties over a temperature range of -10°F to 140°F. The material exhibits rapid curing characteristics for fast turnaround.

GENERAL USES

Blome Sealant 43 is generally used as a joint sealant where excellent chemical resistance is required, such as concrete, acid brick and tile flooring, granite tank linings, secondary containment and monolithic floor toppings. Typical joint sealant applications include:

- Dairy and meat processing plant brick floors
- Industrial Flooring
- Water and Wastewater Treatment
- Commercial Construction
- Bridge and Parking Decks

HANDLING CHARACTERISTICS

Blome Sealant 43 is available in a supplied as a two component, fast curing material. It is installed using dual cartridge caulking tubes or with a plural component pump. Mixed Sealant 43 begins the curing process immediately upon mixing. The material exhibits rapid cure, with an initial cure 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:	15 minutes
Initial cure at 75°F:	60 minutes
Return to service at 75°F:	12 hours

CURED

Color:	Gray, Black, Red, Tan
Elongation:	≥ 650%
Tensile Strength:	≥ 460 psi
Shore Hardness:	45-A
Tear Strength, Die C:	≥ 105 psi

Thermal Shock, Rapid Temperature Change: No cracking or disbonding

PACKAGING & STORAGE

Blome Sealant 43 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 43 will have a minimum shelf life of 6 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 43 as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest Blome Sealant 43 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 43. 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 43 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 43 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 43 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 43 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.

ESTIMATED LINEAR FEET PER GALLON OF JOINT SEALANT							
DEPTH	WIDTH						
	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
1/2"	77'	-	-	-	-	-	-
3/4"	51.3'	34.2'	-	-	-	-	-
1"	38.5'	25.7'	19.3'	-	-	-	-
1 1/4"	30.8'	20.5'	15.4'	12.3'	-	-	-
1 1/2"	25.7'	17.1'	12.8'	10.7'	8.6'	-	-
1 3/4"	22'	14.7'	11'	8.8'	7.3'	6.3'	-
2"	19.3'	12.8'	9.6'	7.7'	6.4'	5.5'	4.8'