

Blome Sealant 72R
Polyurethane Expansion Joint Compound

PRODUCT DESCRIPTION

Blome Sealant 72R is a two-component, pour grade polyurethane sealant with good chemical resistance and excellent elongation properties. It exhibits excellent resistance to most acids, alkalis and salts. It has excellent adhesion to a variety of substrates including concrete, tile, steel and brick. Blome Sealant 72R is highly resilient and retains its elastomeric properties over a temperature range of -80°F to 140°F. It also has very good curing characteristics for fast turnaround.

GENERAL USES

Blome Sealant 72R is generally used as an expansion joint sealant where good chemical resistance is also required such as for 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 72R is available in a pour grade for relatively horizontal surfaces. It may be poured in place and pumped with a caulk gun suitable for two-component materials.

TYPICAL PROPERTIES
WET

Solids by Volume:100%

Pot Life at 75°F:40-60 minutes in 1-gallon units

Initial Set at 75°F:6-8 hours

Typical ready for service cure at 75°F:24 hours

Final Cure at 75°F:7 days

CURED

Color:Gray

Elongation: 147%

Tensile Strength:216 psi

Elastic Recovery: 99%

Bond Strength to Steel:135 psi

Coefficient of Linear Expansion: 26×10^{-5} in./in./°F

Flow at 200°F:None

Thermal Shock, Rapid Temperature Change:No cracking or disbonding

Operating Temperature Range: -80°F to 140°F

PACKAGING & STORAGE

Blome Sealant 72R is supplied as a two-component material, packaged in either pre-measured one-gallon units or in four-gallon 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 72R 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 polyurethane sealant meeting the formulation and performance characteristics of Blome Sealant 72R as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest Blome Sealant 72R data sheet and good industry practice.

APPLICATION GUIDELINES

ENVIRONMENTAL CONDITIONS

It is important that the floor surface and joint be kept dry and reasonably warm. Apply only when air and surface temperatures are between 60 and 95°F and surface is at least 5°F above dew point. Do not use Blome Sealant 72R at temperatures below 60°F. If joint surfaces are damp, not wet, or could become damp, use Blome EC-R540 Moisture Tolerant and install Blome Sealant 72R while primer is tacky but firm.

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 ½ of the joint width. Minimum joint width and depth of sealant should be no less than ¼".

SURFACE PREPARATION

All surfaces must be clean and dry, void of oil, grease, rust, dirt or other contaminants that may inhibit proper adhesion. For porous surfaces such as concrete, wire brushing is recommended and for non-porous surfaces such as steel, solvent wiping may be adequate. For maximum adhesion it is recommended that surfaces be primed with Blome Primer 75. Damp surfaces or potentially damp surfaces should be primed with Blome EC-R540 Moisture Tolerant Epoxy.

MASKING & PROTECTION

Since installation of Blome Sealant 72R should follow completion of the floor surface, it may be advisable to mask the surfaces adjacent to the joint to minimize cleanup of the finished floor surface. Avoid foot traffic for 8-12 hours and 24 hours for vehicle traffic.

APPLICATION EQUIPMENT

Blome Sealant 72R is normally installed with simple equipment. For best results, pour into joints using a pour-can with a spout that has been shaped to fit the joint. This fills the joint from the bottom up and produces a better joint with fewer air bubbles trapped within the sealant. It may also be pumped with equipment suitable for viscous, two-component materials.

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'

MIXING TECHNIQUE

We recommend using Jiffy type mixers for all mixing and stirring. While operating the mixer, avoid plunging it up and down in the bucket. This can fold air into the resin, which may result in bubbles and voids in the cured sealant. Be especially careful not to allow water to enter the mix.

WORKING TIME

The working time for Blome Sealant 72R is a very reasonable 40-60 minutes at 75°F. Ensure that the joints are ready for installation of the sealant before mixing. *We recommend mixing full kits.*

MIXING & APPLICATION

1. Atmospheric temperature must be 60°F or above to permit proper mixing and pouring.
2. Premix each component, then add Component 2 to Component 1.
3. Using a drill motor and an agitator having a 5-inch or larger diameter blade, thoroughly mix for 3 to 5 minutes.
4. Pour into horizontal joints as soon as mixed. Sloping joints can be poured 15 minutes after mixing (when material begins to increase in viscosity).

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 72R may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the material safety data sheet, which is available for each product.

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.

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