

## **Blome Sealant 56 NS** **Non-Sag Polysulfide Joint Sealant**

### **PRODUCT DESCRIPTION**

Sealant 56 NS is a two-component, 100% solids polysulfide elastomer for vertical joints with very good chemical resistance and elongation properties. It is particularly resistant to mild acids, alkalis and most common non-polar solvents including aromatic and aliphatic fuels and oils. Sealant 56 NS has excellent resistance to the effects of outdoor exposure. It has excellent adhesion to a variety of substrates including concrete, tile and brick.

### **GENERAL USES**

Sealant 56 NS is generally used as an expansion joint sealant where good chemical resistance is also required such as for acid brick walls, secondary containment and monolithic surfaces. It may also be used in conjunction with Viton-based coatings for very severe chemical exposures. Typical expansion joint applications include:

- Dairy and meat processing plants
- Chemical processing areas
- Chemical unloading areas
- Beverage plants

### **HANDLING CHARACTERISTICS**

Sealant 56 NS is available in a caulking grade for relatively vertical surfaces. A pouring grade (Sealant 56 SL) is available for horizontal surfaces. It may be applied with conventional caulking equipment.

### **TYPICAL PROPERTIES**

#### **TYPICAL PROPERTIES-WET**

- Solids by Volume: 100%
- Pot Life at 75°F: 60 minutes
- Initial Set at 75°F: 6 hours
- Final Cure at 75°F: 7 days

#### **TYPICAL PROPERTIES-CURED**

- Color: Gray
- Elongation \*ASTM D412): 500-550%
- Hardness, Shore A: 25-30
- Tensile Strength (ASTM D412): 150-200 psi
- Joint Movement Tolerance: ±25%
- VOC: 0 g/L (VOC Category: All other joint sealants)

## **PACKAGING & STORAGE**

Sealant 56 NS is supplied as a two-component material, packaged in pre-measured units as a 1.5-gallon kit. Store unopened components in a dry place, out of direct sunlight and protected from the elements. Storage temperature should be 65-88°F. Properly stored, Sealant 56 NS will have a minimum shelf life of 18 months. Refer to date of manufacture printed on the label.

## **SPECIFICATION GUIDE**

Fill all expansion joints with a two-component polysulfide sealant meeting the generic formulation and performance characteristics of Blome Sealant 56 NS as manufactured by Blome International, O'Fallon, MO (800) 886-3455. Install in accordance with the latest Blome Sealant 56 NS data sheet and good industry practice.

## **APPLICATION GUIDELINES**

### **ENVIRONMENTAL CONDITIONS**

It is important that surfaces and joints be kept dry and reasonably warm. Apply only when air and surface temperatures are between 50 and 95°F and surface is at least 5°F above dew point. Do not use Sealant 56 NS at temperatures below 50°F.

### **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 65-80°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.

### **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. Compress backer rod 25% before filling joints. Where backer rod is not feasible, bond breaker tape is acceptable. The 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. Prime joints with Primer 75. Install Sealant 56 NS when primer is tack free (4-6 hours @ 77°F). Sealant must be applied the same day as the primer, or surfaces will need to be re-primed.

### **MASKING & PROTECTION**

Since installation of Sealant 56 NS should follow completion of the vertical 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 6 hours and vehicle traffic for 48 hours minimum.

### **APPLICATION EQUIPMENT**

Sealant 56 NS is normally installed with conventional caulking equipment. The best installation is done with a bulk caulk gun such as an Albion model #DL-45-T13 or suitable equal. Fill the joint completely and immediately dry tool the joint sealant using a spatula.

## 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 Sealant 56 NS is approximately 60 minutes at 75°F. Ensure that the joints are ready for installation of the sealant before mixing.

## MIXING & APPLICATION

1. Pre-mix the contents of Part A. Add the contents of Part B (to Part A, and then mix. Mix thoroughly for 3-5 minutes at 250-300 rpm, scraping sides and bottom of mixing container, until uniform in color. Avoid high speed mixing as this can incorporate air into the mix. (Mix full units of material. Do NOT split units.)
2. Caulk Sealant 56 NS into the joint taking care to fill the joint without trapping air or forming air pockets.
3. Sealant 56 NS sealant should be immediately tooled after application with a suitable sealant spatula with a rounded tip to provide a concave finish thereby creating the desired hourglass configuration. Spatulas should be slightly wider than the width of the expansion joint.

## 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

Sealant 56 NS may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the 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.

## Estimated Coverage Chart

Joint Dimensions	Coverage (linear feet per mixed gallon)
1/2"W x 1/4"D	154
1/2"W x 3/8" D	102
3/4"W x 3/8"D	68
3/4"W x 1/2"D	51
1"W x 1/2"D	38
1"W x 3/4"D	25

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