

Blome Chem-Joint Flex EN **Flexible, Epoxy Novolac Joint Sealant**

PRODUCT DESCRIPTION

Blome Chem-Joint Flex EN is a two component epoxy novolac resin based, pourable and trowelable grade elastomeric joint sealant material cured with a modified polyamine. It has good chemical resistance and is designed for use to seal expansion joints, control joints and cracks in concrete substrates. This joint sealant is available in two consistencies. Blome Chem-Joint Flex EN is available as pour grade for horizontal surface applications. Blome Chem-Joint Flex EN is available as a trowel grade version for vertical applications.

GENERAL USES

Blome Chem-Joint Flex EN has good chemical resistance to most alkali solutions, salts, a wide range of petroleum products, as well as many mineral acids and most weak organic acids. Recommended uses include sealant for concrete floor joints and cracks in chemical process, storage and secondary containment areas. It is generally used in conjunction with corrosion resistant floor coating systems although it is often used as a standalone sealant for joints and cracks:

- Dairy and meat processing plant brick floors
- Chemical processing floors
- Food and Beverage plants
- Warehouse floors
- Assembly plant areas

HANDLING CHARACTERISTICS / FEATURES

Blome Chem-Joint Flex EN has good chemical resistance, is solvent free, low odor, retains its elasticity, available as a self-levelling (pour grade) and vertical grade (trowel grade), and is resistant to aging, shrinkage, and thermal stress.

TYPICAL PROPERTIES

WET

Solids by Volume (VOC):	100% (0 lbs/gal, 0 g/L)
Work life @ 50, 70, 90 °F (10, 21, 32 °C):	90, 60, 30 minutes
Cure time @ 50, 70, 90 °F (10, 21, 32 °C):	5-7, 2-3, 1-2 days
Mix Ratio, Resin:Hardener by weight (by volume):	~1:1.3 (1:1.5) – both grades

CURED

	Color:	Gray
Tensile Elongation (ASTM D-638) – 28 days @ 77 °F (25 °C):		100%
Tensile Strength (ASTM C-307) – 28 days @ 77 °F (25 °C):		1000 psi (6.9 MPa)
Bond Strength (ASTM C-321) – 28 days @ 77 °F (25 °C):		Greater than strength of concrete
	Maximum Joint Movement:	25%
	Water Absorption (ASTM C-413):	<0.25 %/wt
Temperature resistance - continuous (dependent on chemistry):		130 °F (54 °C)
	- infrequent, occasional steam:	160 °F (71 °C)

PACKAGING & STORAGE

Blome Chem-Joint Flex EN is supplied as a two-component material, packaged in pre-measured 0.75-gallon units and 2.5-gallon. 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 Chem-Joint Flex EN will have a minimum shelf life of 24 months. Refer to date of manufacture printed on the label.

ENVIRONMENTAL CONDITIONS

Apply only when air and surface temperatures are between 50 and 90°F and surface is at least 5°F above dew point. Do not use Blome Chem-Joint Flex EN at temperatures below 50°F. Ensure Blome Chem-Joint Flex EN components are at a minimum of 70°F prior to mixing and application.

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 50-85°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.

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. However, minimum joint width and depth of sealant should be no less than ¼”.

SURFACE PREPARATION

All surfaces must be clean, and free of standing water, 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. Joints should always be primed with Blome Primer 75 Moisture Tolerant Primer. Primer should be allowed to cure to at least a tacky state before application of joint sealant.

MASKING & PROTECTION

Since installation of Blome Chem-Joint Flex EN 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 at least overnight and vehicle traffic for 24 hours minimum. Depending on chemistry and environmental conditions during cure, may require up to one week of cure before being placed into service.

APPLICATION EQUIPMENT

Blome Chem-Joint Flex EN 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. Trowel/vertical grade is applied by trowel.

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.

MIXING & APPLICATION

1. Pre-mix each component then mix together. Mix thoroughly for 2-3 minutes and uniform in color.
2. Pour or pump Blome Chem-Joint Flex EN into the joint taking care to fill the joint without trapping air or forming air pockets.
3. Blome Chem-Joint Flex EN pour grade is self-leveling and need not be tooled. However, a caulking mix should be tooled for best appearance and to ensure uniform bond to the edges of the 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

Blome Chem-Joint Flex EN may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the safety data sheet, which is available for each component.

ESTIMATING

ESTIMATED LINEAR FEET PER GALLON OF JOINT SEALANT			
DEPTH	WIDTH		
	½"	¾"	1"
¼"	154	-	-
3/8"	102	68	-
½"	-	51	38
¾"	-	-	25

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 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.

Revised – January 19, 2023