



Epoxy.com Product #63

Watertight Expansion Joint System

GENERAL DESCRIPTION

Epoxy.com™ Product #63 is a water-tight cross-linked closed-cell Ethylene Vinyl Acetate expanded foam material that exhibits unique properties when used in expansion contraction joints. Epoxy.com™ Product #63 is water-tight and exhibits good chemical resistance properties to most mild non-oxidizing acids, alkalines and petroleum products.

Traffic will not embed dirt and sand in Epoxy.com™ Product #63 as is characteristic with most pourable joint materials. It resists road salts and petroleum spills normally associated with highway traffic and oil storage.

The material remains very flexible, is non-extrudable, and may be custom cut to fit any shape. Fabrication of Epoxy.com™ Product #63 may be accomplished through a heat-welding method on the job-site to make alterations or fabrications, etc., to meet the job requirements. Care must be taken in that the finished joint is not exposed to direct flame, thus protecting the material properties.

USES: Bridge Decks, Water Tanks, Chemical Storage Areas, Stadiums, and most vertical, horizontal, or overhead concrete or steel joints 3/8 inch or larger that require a long lasting, positive water-tight Joint.

SURFACE PREPARATION

Longevity of the joint and its ability to remain water-tight is primarily dependent upon good surface preparation. Durability will be extended by following the suggested recommendations.

CONCRETE & MASONRY SURFACES:

(a) Sandblast or waterblast surface to remove laitance, sharp edges, protrusions or other contaminants which will interfere with the bonding agent.

(b) New concrete should cure to 80% of the design strength before application of joint.

STEEL SURFACES:

(a) Surfaces must be sandblasted to gray metal immediately before application.

(b) Surfaces must be clean and sound.

SAWCUT SURFACES:

(a) Sandblast or waterblast surface to remove any contaminants left on surface from cutting.

REPLACEMENT OF EXISTING JOINTS:

- (a) Remove old joint material, backer-rod and other associated materials in joint opening.
- (b) Repair all damaged nosing with [Epoxy.com Product #15](#) - (Epoxy Mortar) or [Epoxy.com Product #10 Mortar](#)
- (c) Sandblast or grind existing substrate to remove all unsound concrete, oils, greases and old bonding agents. (The substrate must be clean and sound to assure positive adhesion.)

APPLICATION

(a) Calculate movement of span to determine correct size of joint to be installed. Using the shape factor for joint sealant materials the measurement of the depth should never

exceed the measurement of the width.

(b) Epoxy.com Product #63 should be compressed into the joint opening to a point where it will NEVER BE IN CONSTANT TENSION over long periods of time. It also should be installed in a way that will not exceed 50% in compression. Under over compression the material will develop a compression set.

(c) apply Epoxy.com™ Bonder ([Product #5](#) - gray or [Product #18](#) -clear) evenly to both inter surfaces of the nosing and both sides of the Epoxy.com™ Product #63 with a small brush or putty knife. (See Epoxy.com™ Technical Data the bonder to be used-[Product #5](#) or [18 mixing instructions](#)).

(d) Compress joint into joint opening and remove all excess bonding material.

(e) Use a Teflon coated iron to heat weld Epoxy.com Product #63 into continuous lengths.

COLOR

Grey

TEST RESULTS

The information that follows was obtained using the standards for testing preformed expansion joint material for concrete established by AASHTO in accordance with T4249 (1974).

WATER ABSORPTION TEST RECOVERY TEST

(3 months total immersion) (Compressed to its original size 3 times)

Thickness Absorbed Thickness Recovery

1" 3" 1.01% 4" 99.1%

1½" 99.4%

EXTRUSION TEST TENSION TEST

(Compressed 50% its original size and the Average Elongation @Bond Failure 195% amount of extrusion measured.) Average Maximum Tension 120 p.s.i

Thickness Extrusion ULTRA VIOLET

1" 0.134 The specimens showed no deterioration or degradation of the cell structure.

DENSITY MODULUS OF ELASTICITY

Color Pounds per Cubic Foot (Compressed & calculated utilizing the White 2.82 stress/strain relationship)

Grey 3.00 Average Modulus

Color Load p.s.i Elasticity

White 16.35 32.7 p.s.i

Grey 17.97 35.9 p.s.i

FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

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