

XX008129 BACKER MATERIAL (LCDOT)

Effective: April 23, 2010

Revised: May 19, 2014

Description: This work shall consist of installing backer material in transverse and longitudinal cracks, contraction joints or centerline cracks where the depth of the crack exceeds $\frac{3}{4}$ ".

Materials: *The backer material shall be a closed-cell, plastic-foam, heat resistant, chemically inert, waterproof rod compatible with the sealant. The preformed closed cell plastic joint filler shall consist of an extruded, low density, expanded polyethylene plastic foam. It shall have a closed cell structure that is chemically inert and has no food value that would attract or support plant or animal life. The plastic foam shall be odorless and non-toxic, remaining flexible over a wide range of temperatures, and it shall be resistant to chemicals and solvents.*

In addition to the above, the filler shall comply with the following requirements:

(a) Physical Properties and Test Methods.

Physical Properties and Methods of Tests	ASTM
Compression, psi at 10% deflection, not less than 5 at 80% deflection, not greater than 125	D 1056
Moisture Vapor Permeability Permeability, in., less than 0.4	E 96
Water Absorption % by volume, less than 0.5	C 272*
Density lb/cu ft, not less than 2.40	D3574

*Use conditioning procedure 4.1.1 at $122 \pm 5^\circ\text{F}$.

(b) Dimensions and Tolerances: Measurements for conformance to dimensional specifications must be made on a unit of stock which has been allowed to condition for one hour or longer at a temperature of $73 \pm 10^\circ\text{F}$. If the unit of stock is packaged or is a part of a pallet, it must be removed from the package or pallet and allowed to condition free from the insulating effect of the package or pallet.

(1) The thickness shall have a tolerance of plus $\frac{1}{2}$ ", and minus 0.

(2) The width shall have a tolerance of plus $\frac{1}{2}$ ", and minus 0.

(3) The length shall be such that both ends can be squared and the joint filler cut to the required length.

(c) *Appearance:*

- (1) *Each piece of plank shall not contain more than three percent voids or hard spots.*
- (2) *The surface shall be smooth and reasonably free of dents or appendages. All packaged products shall be free of surface dirt and packaging damages.*
- (3) *The planks shall have no kinks or other deformities affecting straightness.*

General: The work shall be performed according to Section 451 of the “Standard Specifications” and the following:

The void shall be routed (if necessary) to provide a depth from the top of the backer rod to the top of the pavement of $\frac{3}{4}$ ”. The Engineer shall determine the areas where the backer rod will be required. The backer material diameter shall be $\frac{1}{8}$ ” wider than the routed joint.

Method of Measurement: Backer material will be measured for payment in feet along the cracks where the material is installed.

Basis of Payment: BACKER MATERIAL will be paid for at the contract unit price per foot. *The unit price shall include all equipment, materials and labor required to install the backer material.*