

CEILCOTE® EJ11

Flexibilized expansion joint sealing compound

DESCRIPTION:

CEILCOTE® EJ11 joint sealant system is a two component, chemical-resistant fluorelastomer compound designed as an expansion joint for linings and floorings as well as for sealing joints and cracks in concrete.

It has excellent resistance to strong acids such as 98 percent sulfuric acid, 60 percent nitric acid, concentrated phosphoric and hydrochloric. The CEILCOTE EJ11 system can be chemically cured at an ambient temperature to form a tight fitting, elastomeric joint.

TYPICAL USES:

- Expansion joint for monolithic linings
- Expansion joint for seamless floors
- Expansion joint for acid proof brick floors
- Concrete joint sealing compound

ADVANTAGES:

- Excellent splash/spill resistance to strong chemicals including:
 - 98% Sulfuric
 - 60% Nitric
 - Concentrated Phosphoric
 - Concentrated Hydrochloric
 - 5% Sodium Hypochlorite
 - Aromatic and Chlorinated Hydrocarbons
- Cures at ambient temperature to form a bonded elastomeric joint
- Flexible at low temperatures

COLORS:

Available in Black

PHYSICAL PROPERTIES:

Percent Solids: by weight	55%
Tensile Strength: (ASTM D 412)	400 psi (2.8 MPa)
Ultimate Elongation: 7 day cure (ASTM D 412) post cured	600% 200%
Tear Resistance: (ASTM D 638)	76 lb/in (14 kg/cm)
Hardness, Shore A:	38 - 48
Working Time: @ 73 °F (23 °C)	40 minutes
Set to Touch:	10 to 15 minutes
Cure Time: @ 73 °F (23 °C)	
Acids	2 days
Solvents	7 days
Shelf Life:	3 months

COVERAGE:

CEILCOTE EJ11 Bondcote Coverage: 750 in²/unit (4800 cm²)
 CEILCOTE EJ11 Elastomer Coverage: 55 in³/unit (900 cm³)

MIX RATIO:

By Volume: 15:1
 By Weight 24:1

Joint Size¹:

<u>W x D</u>	<u>Lineal Ft/ 1/2 gal unit</u>
1/2 in. x 1/4 in. (1.3 x .64 cm)	36 (11 cm)
3/4 in. x 3/8 in. (1.9 x .97 cm)	16 (5 cm)

¹ Larger joints may result in undesirable cure shrinkage which may pull away from sides of the joint. Maximum depth recommended is 3/8 in. (.97 cm) for any single pour. Larger joints may be constructed by multiple layers.

PACKAGING:

CEILCOTE EJ11 1/2 gal unit consists of the following:

- CEILCOTE EJ11 Elastomer
5 lb 5 oz (1 gal can)
- CEILCOTE EJ11 Hardener
3 oz (4 oz bottle packed in 1 qt can)
- CEILCOTE EJ11 Bondcote
7.25 oz (1 pt can)
- CEILCOTE EJ11 Bondcote Hardener
0.1 oz (1 oz bottle packed in 1 pt. can)

INSTALLATION:

Preparation:

For information on joint construction and installation, refer to CEILCOTE CS-15 and CP-16.

Note: Overlap the base coat of the polymer topping/lining into the joint. Abrade its surface and then apply Bondcote.

CEILCOTE EJ11 Bondcote is required to enhance the initial bonding of the CEILCOTE EJ11 material. CEILCOTE EJ11 Bondcote is brush applied at 10 to 20 mils wet thickness over the clean, abraded surface in the joint prior to the addition of the polyethylene backer rod.

After the CEILCOTE EJ11 Bondcote has cured 16 to 24 hours at 70 to 80 °F (21 to 27 °C) the polyethylene rod is put in place.

Application:

The elastomer and its bondcote have been unitized and short packed to aid in measurement and mixing.

Mix both components thoroughly before combining. A four-blade beater whip is useful for mixing the elastomer. Care should be taken to avoid heating the elastomer, via mixing shear, beyond 100 °F (38 °C) since its working time will be reduced.

Slow mixing by hand or a low speed mechanical mixer is recommended. A high speed, mechanical mixer is not recommended. It will whip air into the mixture, resulting in a porous material during cure.

Make sure the hardener is blended thoroughly in the elastomer; one minute mixing at approximately 100 rpm should be sufficient.

Working time is approximately 40 minutes at 75 °F (24 °C) and shorter at higher temperatures. Be prepared to work fast.

Pour the CEILCOTE EJ11 into the joint.

Note: Add #V1 powder for VERTICAL applications.

CLEAN UP:

Use T-410 solvent, MEK or lacquer thinner.

MAINTENANCE:

Periodically inspect the applied material and repair localized areas as needed. Consult your Master Builders, Inc. representative for additional information.

SAFETY:

CEILCOTE EJ11 material contains fluorocarbon resins, polyamine catalyst, halocarbon oil, acetate, and aromatic solvents. The product's components have been formulated to optimize characteristics such as filling capacity, chemical resistance, and ease of application for a joint compound while minimizing hazardous physical and health factors encountered during application.

During application of CEILCOTE EJ11 materials, always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed or confined areas. Air movement must be designed to ensure turnover at all locations in work area and adjacent areas to avoid build up of heavy vapors. Use caution when handling flammable liquids, eliminate sources of ignition from work area and containers with residues.

For detailed safety guideline, please refer to the product Material Safety Data Sheet (MSDS).

TECHNICAL ASSISTANCE:

For technical assistance please contact your local Master Builders Representative.

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