

Description

CEILCOTE EJ3 is a two component, pourable polysulfide elastomer designed for use in applications requiring a chemical resistant sealant for horizontal joints. CEILCOTE EJ4 is trowel grade, for use on vertical and overhead surfaces. When cured CEILCOTE EJ3/EJ4 forms a tight fitting synthetic rubber compound to effectively seal out water and many aggressive chemical solutions

Typical Uses

- Sealing joints in concrete, tile, monolithic and acid proof brick floors
- Control and expansion joints
- Chemical environments

Advantages

- Flexibility to accommodate cyclic movement
- Good adhesion to concrete, steel and other common construction materials

Chemical Resistance

Dilute Acids-Good
 Alkalis-Good
 Salts-Excellent
 Solvents-Good (exceptions are chlorinated solvents, ketones and acetates)
 Water-Excellent
 Chemical resistance data should only be used as a guide. Due to the complexity of chemical resistance, contact Ceilcote for information regarding your specific application.

Substrate

Refer to Ceilcote concrete specification CPT-1 for concrete requirements.

Preparation

In floor covering work, the expansion joints must be prepared by the procedure outlined in the following section, then protected from contamination during application of lining or floor covering. For ease of mixing and application, the temperature of the sealant should be above 60°F (16°C). It should be stored so it is not below 60°F (16°C) when mixed.

Design Information

For optimum performance the distance allowed between expansion joints should be engineered to prevent sealant elongation in excess of 25% during extreme temperature fluctuations. Both maximum and minimum temperatures should be taken into consideration. As the distance between expansion joints increases, the width of the joint should also be increased proportionally.

Shape Factor - The maximum depth should not exceed the width of the joint. Best results will be obtained when the sealant depth is equal to 1/2 of the joint width.

Backing Material - To insure the proper depth of sealant in an expansion joint, it is necessary to have a backing material installed in the joint at the desired depth prior to applying the sealant. This backing material may consist of any compressible material, which will not bond to either the sealant or the joint walls. Some commonly used backing materials are soft wood, rubber, rope, sponge, or polyethylene foam. A suitable material is Ethafoam SB Brand, Dow Chemical, U.S.A.

Application

1. Remove joint material installed by the concrete contractor to a depth of at least 1" (25MM).
2. Joint walls must be clean, dry and free of dust and weak, contaminated or deteriorated concrete. Joint walls should be prepared by abrasive blasting.
3. If adjacent concrete surfaces are protected with a lining or coating, the coating should be applied to the walls of the joint.
4. Place backing material.
5. Prime joint with CEILCOTE EJ3/EJ4 Primer. Primer must be tack-free [approximately 20 minutes @ 73° F (23° C)] before placing CEILCOTE EJ3/EJ4. If sealant is not placed within 24 hours of priming, joint must be re-primed.

Mixing Ratio

By Volume	
EJ 3/4 Resin	1 gal (3.785 litres)
#2 Hardener	8 oz (236.56ml)
EJ3 Primer	Single component

Placement

After priming the surface, mix the two components (resin and hardener) together for two minutes using a jiffy mixer (Jiffy Mixer Co., Irvine, CA), or equal, powered by a low speed (400 to 600 RPM) electric drill.

Pour thoroughly mixed CEILCOTE EJ3/EJ4 into the prepared joint until flush with top surface of slab. Tool surface to a smooth finish.

Handling Properties

Working Time

Temp.	
75°F (24°C)	30-60 min

Cure Times

Temp	Open to Traffic	Full Cure
75°F (24°C)	24 hrs	72 hrs

Coverage

CEILCOTE EJ3/EJ4 Primer: approximately 900 in²/gal
 CEILCOTE EJ3/EJ4: approximately 200 in³/gal



Joint Size	(mm)	Lineal Feet/gal (m/liter)
1 1/2" wide x 3/4" deep	(38x19)	15 (1.2)
1 1/4" wide x 5/8" deep	(32x16)	21 (1.7)
1" wide x 1/2" deep	(25x13)	33 (2.6)
3/4" wide x 3/8" deep	(19x10)	59 (4.8)

Packaging

Ceilcote EJ3 Pourable 1, 5 gal units (3.785, 18.92 litre unit)
Ceilcote EJ4 Trowelable 1, 5 gal units(3.785, 18.92 litre unit)

Storage

Store in a cool, dry [50°- 90° F (10° - 32° C)] and covered location away from fire hazards and direct sunlight. Minimum shelf life at 70°F (21°C) is 12 months

Higher temperatures will shorten the shelf life of these products.

Safety

CEILCOTE EJ-3 and EJ-4 materials contain polysulfide resins and solvent. The hardener is an organic peroxide. Observe the following health, physical, and storage precautionary measures before using

During application of CEILCOTE EJ-3 and EJ-4 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 insure turnover at all locations in work area and adjacent areas to avoid buildup of heavy vapors. Use caution when handling flammable liquids, eliminate sources of ignition from work area and containers with residues.

Observe safe storage practices by separating resins from hardeners, by keeping solvents in a cool area, free of sources of ignitions.

Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

Maintenance

Periodically inspect the applied material and repair localized areas as needed. Consult your CEILCOTE representative for additional information.

Technical and Physical Data

	Test Standard	
Elongation	ASTM D-412	200%
Hardness	ASTM D-2240 Shore A	30-35
Flexibility		Excellent, no age hardening
Flash Point EJ3/EJ4 EJ3/EJ4 Primer #2 Hardener	Pensky-Martens Cup	106°F (41°C) 22°F (-5.5°C) 175°F (79°C)
Tensile Strength	ASTM D 412	180 psi (1.24 Mpa)
Temperature Resistance		-50°F to 200°F (-45°C to 93°C)
Consistency EJ3 EJ4		Heavy liquid Paste caulk

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. WE HEREBY DISCLAIM ANY WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

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