



e⁵ EPOXY JOINT SL

Bicomponent epoxy filler for industrial-floor construction and control joints



ELEMENTS
QUÍMICA APLICADA

e⁵ EPOXY JOINT SL

Description

e⁵ EPOXY JOINT SL is a semi rigid self leveling product. It is specially designed for construction and control-joint fillers (shrinkage) in industrial floors exposed to solid wheel loads. Thanks to its formula, it can be used to fill cracks that are not subject to high movement in floor repair.

Benefits

- 100 % solids
- It stops substance penetration to the base, thus improving its stability.
- Reinforces sides of joints.
- Allows limited movement due to above ground temperature gradients.
- Available in various colors, with the versatility to liken floor appearance.

Presentation

Two gallon kit (7.5 L)

Ten gallon kit (37.5 L)

It can be offered in two drum presentations, 100 L each, part A and part B.

Useful life: one year from date of manufacture in its original container

Principal applications

- Filler for construction and control joints, slabs on grade for industrial, commercial and storage floors
- Horizontal applications
- For indoor use
- It can be used to rehabilitate industrial floor slabs (filler).

Technical information

23 °C Test for		
	Density g/mL	Viscosity, cps
Part A	1.28	6,500
Part B	1.19	10,000

Mix ratio:	One part-A volume plus one part-B volume	
Pot life, min.	30 to 40	
Shore hardness A	90	ASTM D 2240
Elongation, %	95	

Recommendations for use

Joint preparation

For a better application, it is necessary to follow ACI 302 recommendations.

Concrete must be adequately cured in conformance with ACI 308 recommendations. Adequately clean the joint, freeing it from any substance that inhibits adherence with the substrate, such as dust, oil, grease, curing membranes, loose material, etc. Joints must be free of moisture. Vacuuming is recommended after cleaning.

Sand is not recommended as a backing material. The use of a backer rod is preferable, as per the established dimensions recommended by the manufacturer. This will depend on the joint width to ensure the material's compression. The recommended age, for the filler application, is at least 90 days after mixing concrete. This will have allowed between 60 to 80 % of the drying shrinkage. This will depend on the design and type of concrete used.

Product preparation

Make sure to use the personal protection equipment, as prescribed in the safety data sheet. Separately mix each of the components, making sure an adequate propeller to avoid entraining air in the product.

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Add the part B catalyst to part A and make sure to mix thoroughly during 3 minutes at low rpms. Place the product in a caulking gun or in a plastic container with a pointed seal and proceed to fill the joint. Consider the workability of the product in preparing an adequate volume of mix, to satisfy the programmed lineal meters of caulking. Ensure a complete fill to the established depth. Shave off the excess at 24 h.

Clean the equipment with e⁵ SOLVENT.

For additional information consult with the **ELEMENT5 Química Aplicada S.A. de C.V. Technical Department.**

Care and cautions

- Do not use product below 4 °C.
- The substrate temperature (floor) will affect the product reaction rate, where at low temperatures it will delay the reaction time and at high temperatures it will accelerate it.
- Do not apply the product for isolation or expansion joints.
- The product can show decoloration if exposed to UV radiation. Hence it is recommended for indoor use.
- It is necessary to clean and prepare the joint to guarantee that it is moisture free.

Yield per liter of mixed product

JOINT WIDTH mm (inches)	JOINT DEPTH 25 mm (1")	JOINT DEPTH 38 mm (1.5")	JOINT DEPTH 51 mm (2")
4.8 (3/16)	7.0 (102)	4.7 (68)	3.5 (51)
6.4 (1/4)	5.3 (77)	5.5 (51)	2.6 (38)
9.5 (3/8)	4.7 (51)	2.3 (34)	1.7 (25)

References

ACI 302.1 R 04: Guide for Concrete Floor and Slab Construction
<http://www.concrete.org/Store/ProductDetail.aspx?ItemID=302104>

ACI 308 R 01: Guide to Curing (Reapproved 2008)
<http://www.concrete.org/Store/ProductDetail.aspx?ItemID=30801>

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