

ZeraJoint™ EU

Load Bearing Control Joint Filler



DESCRIPTION

ZeraJoint™ EU is a 100% solids, two component, self-leveling flexible epoxy urethane joint sealant for load bearing saw cut or preformed control joints.

WHY WE NEED CONTROL JOINTS

Cracking is unavoidable and undesirable in a concrete floor. Shrinkage is a main cause of cracking in concrete slabs. As the concrete hardens and dries, it shrinks due to the evaporation of excess mixing water. Both control joints and expansion joints are critical to minimizing cracks in concrete floors. Control joints are used to relieve the stress within a concrete slab by "coaxing" the crack to occur within the joint, where you can't see it. Expansion joints are designed to allow an entire slab to expand and contract without coming into contact with an adjacent slab, wall or floor embedment, such as a columns.

WHERE TO USE

ZeraJoint™ EU is recommended for use as a joint filler for interior horizontal sawcut or preformed control joints. It is typically used in facilities such as manufacturing areas, warehouses and loading docks where joints are subject to dynamic loading and impact. ZeraJoint™ EU is also suitable for repairing interior concrete slabs that have cracked due to settlement or shrinkage.

BENEFITS

- 100% solids, low odour, zero VOC's
- Adheres to both damp and dry concrete surfaces
- Cures as low as 5°C (40°F)
- Excellent self-leveling and flow properties

PROPERTIES: Wet Properties: (Measured @ 23°C (74°F):

Mixing Ratio, by volume	1 part A : 1 part B
Viscosity (Mixed)	3500 cps
Solids Content	100%
Mixed Density	1.06 kg/litre (8.83 lb/US gallon)
Pot Life	10 minutes
Cut Time	12-16 Hours
Colour	grey

Cured Properties (7 days cured @ 23°C, 50 RH)

Shore Hardness	40D
(ASTM D2240)	
Abrasion Resistance (ASTM D4060)	94mg loss
Taber Abrasion, C-17 Wheel, 1000 cycles	
Pull Out Tensile Adhesion to concrete	4.2 MPa.(609 psi)
(ASTM D4541)	(concrete failure)
Water absorption	0.5 % (by weight)
(ASTM D413)	

APPLICATION

SURFACE PREPARATION

Joints to receive ZeraJoint™ EU must be clean and dry. Remove any dirt, dust, grease, oil or other foreign contaminates from joints. Both sides of joints should be covered with masking tape. Use a bond breaker in the bottom of the joint such as polyethylene film or tape.

PRIMER

No primer is required for dry joints. In the event the joints are not dry, consult your Zeraus Technical Representative for primer recommendations.

MIXING

Pre-mix Part A separately before combining. Pour Part B into Part A container and mix thoroughly for 2 minutes until a uniform grey colour is achieved. Exercise care not to entrap air while mixing.

PLACING

Mixed product can be poured from the mixing container or a disposable metal or plastic container. Two passes are generally required to bring the sealant up flush with the floor surface as a neat, even joint, free from "dishing". The second pour must be made before the initial pour sets. NOTE: The joint must be completely filled with ZeraJoint™ EU from the bottom up for proper performance.

LIMITATIONS

- use only for interior horizontal joints
- do not use as an expansion joint filler or for applications involving continuous immersion

- **ZeraJoint™ EU** is not designed for use in areas subjected to chemical exposure
- concrete temperature must be a minimum of 5°C (40°F) during application
- **ZeraJoint™ EU** may discolour in areas exposed to constant sunlight

COVERAGE

For 3.79L (1 U.S. gallon) of mixed product:

WIDTH	DEPTH	LENGTH
3mm (1/8")	19mm (3/4")	60m (197ft)
	25.4mm (1")	45m (148ft)
	38mm (1 1/2")	30m (98ft)
4.5mm (3/16")	19mm (3/4")	41m (135ft)
	25.4mm (1")	31m (102ft)
	38mm (1 1/2")	20m (66ft)
6.4mm (1/4")	19mm (3/4")	31m (102ft)
	25.4mm (1")	23m (76ft)
	38mm (1 1/2")	15m (49ft)

PACKAGING

7.58 L (2 U.S. gal) unit

CLEAN UP

Clean all tools and equipment with xylene or acetone prior to the material setting.

SAFETY PRECAUTIONS

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

STORAGE

Must be stored in a dry heated warehouse. Do not allow to freeze in storage or transport as base resin may crystalize.

SHELF LIFE

Two years if stored under normal heated warehouse conditions in original unopened containers.

WARRANTY

“The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties,

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