

PeneBand C

PenePoxy 2K



System of materials for waterproofing of expansion joints (contraction, anti-seismic and shrinkage).

«PeneBand C» - elastic band capable to withstand significant joint movements in various directions

«PenePoxy 2K» - two-component epoxy adhesive that forms hard and durable material during polymerization

ADVANTAGES

- - Applicable for ensuring and restoring waterproofing of expansion joints both from the inside and outside of structures
- - Excellent adhesion to various materials (concrete, metal)
- - High strength of band and adhesive
- - Capable to resist high hydrostatic water pressure
- - Applicable for complex structures
- - Durability and chemical resistance
- - UV resistant

PeneBand C

SPECIFICATIONS

Parameters	Requirements	Test procedure
Thickness	1 mm	GOST 26433.0
Length	20 m	
Width	200, 300, 500 mm	
Breaking strength	at least 14 MPa	GOST 270
Elongation at fracture	at least 500 %	
Additional specifications		
Packaging	Roll 20 m	
Operating temperature	From -50 up to +90 °C	
Storage and transportation conditions	No limits	
Shelf life		

Adhesive «PenePoxy 2K»

Parameters	Requirements		Test procedure
	Component A	Component B	
Ratio by weight (A:B)	2	1	TS 2252-008-77919831 2013
Appearance	Light-grey pasty mass	Black (dark grey), pasty mass	
Density at 20 °C	At least 1600 kg/m ³		GOST 25945
Pot life	At least 40 minutes		GOST 33122
Adhesion to concrete and band	At least 4,5 MPa		GOST P 58277
Compressive strength	At least 60 MPa		GOST 310.4
Additional specifications			
Operating temperature	from -50 up to +90 °C		
Packaging	Component A — 10 kg; Component B — 5 kg		
Storage and transportation conditions	Store at: from +5 up to +25 °C		
Shelf life	12 months when properly stored in unopened and undamaged original packaging		

WATERPROOF OF DEFORMATION JOINTS

Apply when the temperature of the structural surface is from +5°C up to +35°C. in dry and calm weather conditions.

ADHESIVE CONSUMPTION

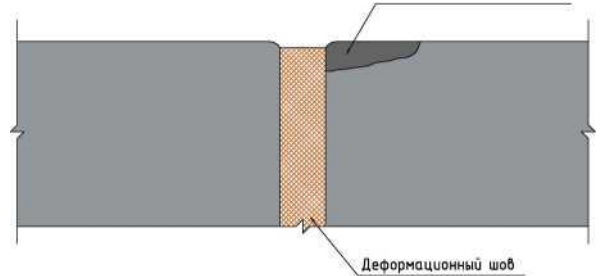
0,6—0,8 kg/m.p.

Safety Precautions

Use PPE: chemical-resistant rubber gloves, cotton gloves, respirator, protective goggles, suitable protective clothing, rubber boots. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Surface Preparation

Remove deteriorated concrete mechanically. Surface must be clean of any contamination (for instance, use end-type diamond cutter). Use Screpa M500 Repair mortar to restore uneven surfaces. Round off joint edges. In case of leakages, use “Peneplug” or “Waterplug” mixtures. When applying on surfaces that may be subject to water pressure use “PenePurFoam” or “PeneSplitSeal” to fill the joint with resin and prevent water accumulation inside a joint. Concrete surface must be dry to ensure excellent adhesion of Pene-Poxy to the surface in early stages and easy application.



BAND SELECTION

Band width depends on the size of a joint and deformation. If deformation characteristics are not available use a band with a width of at least the average width of the joint plus 200 mm.

ADHESIVE PREPARATION

Storing and transporting adhesive at temperatures below +5 °C can lead to an increase in the viscosity of component A. In this case heat the pail (60-70 °C) In this case, heat (temperature 60-70 °C) the bucket in a water bath until the working consistency is restored. Breakdown of component B is possible. Stir Component B thoroughly in original container to ensure homogeneous consistency. Before preparation store indoors at a temperature of +15 to +25°C for 24 hours. Mix components in the ratio A:B = 2:1 by weight for 2 minutes using a drill at slow RPM (up to 300 RPM). Before use make a control batch to assess adhesive pot life on the site. Adhesive viscosity rises as the temperature decreases, viscosity decreases in higher temperatures. Prepare only as much material as can be used within pot life.

APPLICATION

Use spatula to apply continuous even layer of adhesive to the prepared dry concrete surface. Layer thickness must be 2-3 mm, width on each side of the joint should be at least 80 mm.

BAND APPLICATION

Lay the band on the adhesive. Press firmly into position on the surface and remove air from under it using a plastic roller. Putty the edges of the band with glue for 5-10 mm. Tightly shut ends together at a temperature of 300-350 °C using heat gun of at least 2300 W with slot nozzle of 20-40 mm, splice ends by at least 100 mm. After application make sure the product is pressed to the concrete surface for at least 24 hours using any method.

Mechanical damage protection

Protect the PeneBand C band from any damages using a 5-10 mm thick conveyor or galvanized metal sheets.

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