

PenePurFom 65

MATETRIALS

(PenePurFoam 65)

DESCRIPTION	Single component, intense, injectable low viscosity, polyurethane resin. When reacts with water, it forms a dense, waterproof, high density closed-cell foam to stop water leakage.	
RECOMMENDED FOR	Stopping water penetration from cracks in structures - Sealing dry cracks and joints up to 0,15 mm - Filling bug holes	
ADVANTAGES	 Volume expansion due to intense reaction with water Hermetic sealing of difficult accessible areas Accelerated polymerization with catalyst 	
PROPERTIES -	Excellent seawater resistance Solvent-free, halon-free Resin reaction products are resistant to acids, alkalis, and microorganisms	

SPECIFICATIONS

Parameter name	PenePurFoa m65	PenePurFoa m 65 catalyst	Test procedure
Density, kg/m ³	1100 ± 50	950 ± 50	GOST 18329
Relative viscosity * at 20 \pm 2 °C, mm ² /s	200 ± 20	40 ± 10	GOST 8420
Pot life * of resin and catalyst mixture (when not in contact	60 (film formation on the		TS 5775-
with water and air), 20±2 °C,	surface upon 3-5 min. is acceptable)		77919831-
Resin volume expansion at 20±2 °C when in contact with water and catalyst, %, max	6500		2013
* - resin viscosity rises as the temperature decreases; in higher temperatures the pot life will be reduced			

PACKAGING	«Penepui Foarri 65» – metanic cari 20 kg	
	«PenePurFoam 65 Catalyst» – metallic can 1 kg (2 pcs.).	
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TRANSPORTATION all types of transport.

SHELF LIFE 24 months when properly stored in a dry place at a temperature from 0 up to +50°C in unopened and undamaged original packaging.

	Apply when the temperatu	re of the structural s	PurFoam 65 surface is from 5°C up	o to 35ºC.
Safety Precautions	Use PPE: chemical- goggles, suitable pro immediately with ple	resistant rubber gle tective clothing, rubl nty of water and see	oves, cotton gloves, ber boots. In case of k medical advice.	, respirator, protective contact with eyes, rinse
Surface Preparation	Flush clean water to	joints, cracks using a	a pump or a high-pres	ssure water jet.
Pump preparation	Use the manual pum Mobil HLP-68 or equiv	np "EK-100M". Befor valent) in circulating	e applying the resin, mode for control flus	use hydraulic oil (e.g., hing of the pump.
Injector installation	 Use ball valve type if than the one of inject diameter should be 1 Drill injection holes holes and from the et the structure Remove drilling resid injector For vertical surface width of approximate For repair work" 	metal injection packet ctor (for example, w 1-12 mm). with an angle of ~ 4 edge of the crack, co ues from the holes u es and ceilings make ely 25 × 25 mm and	ers. Hole diameter sh ith an injector diame 45° to the surface. Th oncrete joint should b using compressed air a sawcut along the fill it with the mortar	hould be 1-2 mm larger eter of 10 mm, the hole the distance between the be 1/2 of the thickness of and install outermost length of the crack at a mixture "Screpa M500.
Resin preparation	 Warning! Minimum decreases. In higher Calculate catalyst ar (see table below) Make control batch to Prepare resin in the a manually or using low Catalyst amount, 	temperature - +: temperatures the po nount based on wat assess on-site pot l amount adequate to v speed drill (up to 3 Reaction ti	17°C. Viscosity rise t life will be reduced. ter filtration rate and ife pot life: mix resin wit 00 RPM). me when in contac	s as the temperature d ambient temperature h catalyst for 3 minutes t with water,
	%	depending on temperature		
	2	+5°C	+15°C	+25°C
	6	4 min	3 min	2 min
	10	2 min	1,5 min	1 min
	0 10	4 min 2 min	1,5 min	2 min 1 min

Injection	 Warning! For vertical surfaces, always inject from bottom to top (from the lowest injection packer). Pump until resin starts to flow from the next highest injection packer or until the pressure rises. Begin filling from the next injection packer and follow this sequence of injection If viscosity increases, rinse the pump with a solvent (for example, solvent 646
	 GOST 18188), and prepare a new mixture Ensure that all injection packers are filled with the resin before polymerization Use "Penecrete" mortar mix if injection packers need to be loosened and removed.
Pump cleaning	Flush the pump and hoses with solvent (for example, xylene or GOST 18188 solvent 646) and hydraulic oil (for example, Mobil HLP-68 or equivalent). Remove cured resin mechanically.