



NanoGrout EP

General purpose epoxy grout

Description	NanoGrout EP is a high strength three component epoxy based grouting system offering superior performance for structural applications. provides significant benefits to specifier, end users and is designed for grouting in tight clearances where maximum flow and highest performance required.		
Primary Applications	<ul style="list-style-type: none"> • Fool proof grouting in a variety of weather conditions. • Precision seating of base plates. • Mechanical bridge joints. • Bridge bearing pads • To fill cavities in concrete. • Machinery grouting. • Structural Anchoring of bolt and re-bar's. • Rail anchoring and grouting. • Reciprocating machinery, testing equipment • Heavy crane, high speed turbines, centrifuges and drop forges. 		
Features /Benefits	<ul style="list-style-type: none"> • Low creep characteristics under sustained loading. • Rapid hardening • Resistant to repetitive dynamic loads. • Non-shrink and hence ensures complete surface contact and bond. • High compressive, tensile and flexural strengths. • Fast convenient installation with rapid strength gain. • Withstands a wide range of chemicals • Can be filled 0.25 to 120 mm gap. • High vibration resistance. • Corrosion and impact resistance. 		
Properties	The following results are typical for the hardened grout at 20°C.		
	Compressive strength (BS 6319, Part 2: 1983)	57 N/mm ² 66 N/mm ² 83 N/mm ²	1 day: 3 days: 7 days:
	Tensile strength (BS 6319, Part 7: 1985)	14.2 N/mm ²	7 days:
	Flexural strength (BS 6319, Part 3: 1990)	32.5 N/mm ²	7 days:
	Bond Strength(ASTM C-882-Modified)		
	Concrete:	4N/mm ²	
	Steel:	15-20N/mm ²	
	Color:	Grey	
	Consistency:	Flow able	
	Application life:	40 minutes at 20°C	
	Mixed Density:	2000 kg/m ³	
	Chemical Resistance:	Oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water.	
Packaging	15kg pack.		
Storage	Store in a dry and cool place below 35°C. Protect from direct sunlight.		
Shelf life	24 months if stored properly in original unopened packaging.		



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Instruction for use

Concrete surface preparation:

All contact surfaces must be free from oil, grease, freestanding water or any loosely adherent material. Concrete surfaces should be cut back to a sound base. All dust must be removed and bolt holes or fixing pockets blown clean of any dirt or debris.

Steel Surface preparation:

All steel surfaces should be shot blasted free of rust and flaky mill scale. Cleaned surfaces may be protected by the application of NanoPrimer.

Shuttering:

The form work should be constructed to be leakproof as NanoGrout EP products are free-flowing grouts. Loss of grout once the material is placed, but not hardened, will result in incomplete filling of the gap. For free-flow grout conditions it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper system should be used.

Placing:

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power drill and paddle until homogeneous. Pour all the liquid into a container with a capacity of 15 to 25 liters. Add all the filler provided for each product. Mix using a slow speed power drill and paddle for 2 minutes or until a uniform colour is achieved in the grout.

Cleaning & disposal

Clean all tools with NanoSolvent after completion the job. Do not dispose off into water or soil but according to local regulations.

Precautions & Limitations

To reduce the risk of exotherm, these products should only be mixed when ready for use and then applied without delay. Any unused residue should be poured onto a disposable impervious surface, in a well-ventilated area, to allow cure before disposal.

Health & safety

In common with most epoxy resin systems, the NanoGrout EP range will react exothermically when mixed and left in bulk. The heat generated may be excessive and can lead to vapor emission and splash damage to adjacent.