



NanoGrout SG

Epoxy Based Structural Adhesive & Anchor Grout

DESCRIPTION

NanoGrout SG is a two component, epoxy base, high strength, structural adhesive and anchor grout. It is available in paste and pourable grades.

USES

NanoGrout SG is used as epoxy grout for base plate bolt pockets, bar anchor, starter bars, bridge bearing, boom fixing, etc. It is also used for speedy and permanent patching repairs to concrete structures, bonding of precast concrete components, bridge bearings to concrete and all structural repair works where strength, impermeability to water and resistance to aggressive chemicals is essential.

ADVANTAGES

- High early strength
- 3 to 4 times stronger than typical concrete
- Good adhesion to most of the substrates
- Excellent resistance to abrasion and impact
- Corrosion resistant
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Suitable for dynamic loads
- Two grades in paste and pourable variants
- Tolerant to damp conditions

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE		
Component	-	Two: Part A- Base Part B- Hardner		
Mixed Form	-	Pourable		Paste
Colour	-	Grey when mixed		
Compressive Strength	BS 6319-2	1 Day	45 N/mm²	50 N/mm²
		7 Days	80 N/mm²	70 N/mm²
Flexural Strength	BS 6319-3	7 Days	35 N/mm²	25 N/mm²
Tensile Strength	BS 6319-7	7 Days	25 N/mm²	20 N/mm²
Bond Strength	ASTM D4541	7 Days	> 2.5 N/mm²	> 2.5 N/mm²
Pot Life	-	45-70 mins (2kg mixed material)		
Water Penetration	BSEN 12930-8	Nil		
Chemical Resistance	ASTM D 543	Resistant to alkalis, fuels, acids, oils, etc.		

SURFACE PREPARATION

Surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Rotary percussive drilling will help in providing a rough internal surface which will help in better bonding.



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MIXING

Stir base and hardener individually before mixing. Add hardener to base component. Mix together thoroughly with a slow speed drill (max 400 R.P.M.) fitted with a paddle for one minute till a uniform colour and consistency is obtained.

APPLICATION

For Anchor Bolts

Anchor bolt pockets, dowel and starter bar holes must be dry. Pour the mixed grout into the bolt hole and push the bolt/dowell bar into the hole with a slight agitation to remove entrapped air.

For Patching Work and as Adhesive

Apply the material by using notch trowel, scrapper or with a big spatula for a minimum thickness of 1 mm. Bonding of elements should be done while **NanoGrout SG** is still tacky.

Volume of NanoGrout SG in ml/100mm. bond length

Hole Diameter	Bolt Diameter					
(mm.)	12	16	20	25	32	40
20	25					
25	50	40	25			
32	80	70	60	40		
38		130	100	75	45	
45			150	130	100	45
50				180	150	90
62					280	225

PACK SIZE

1ltr, 3 ltr and 6 ltr set

GENERAL INFORMATION

Shelf Life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

Cleaning

Clean all equipments and tools with **Conmix Cleaner** immediately after use.

HEALTH and SAFETY

PPE's

Gloves, goggles and suitable mask must be worn.



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Precautions	Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.
Hazard	Regarded as non-hazardous for transportation.
Disposal	Do not reuse containers. To be disposed off as per local rules and regulations.
Additional Information	Refer MSDS. (Available on request.)

TECHNICAL SERVICE	CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.
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Manufacturer:
CONMIX LTD.
 P.O. Box 5936, Sharjah
 United Arab Emirates
 Tel: +971 6 5314155
 Fax: +971 6 5314332
 Email: conmix@conmix.com

Sales Office:
 Tel: +971 6 5682422
 Fax: +971 6 5681442
www.conmix.com



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