



ROCK GROUT BB80

High Performance Non Shrink Expanding Cementitious Grouting Mortar

Product Description	ROCK GROUT BB80 is a high performance, shrinkage compensating, ready to use grouting mortar. Consisting of: A blend of cement & fillers, Properly graded quartz aggregates,					
	And Special additives. When mixed with water, the product forms a fluid grey coloured grout (similar to concrete color).					
Uses	Anchorage of bolts or iron bars in concrete. Precision grouting for industrial equipment's, subject to shocks and vibrations. Grouting of railway rails or travelling crane tracks. Grouting for turbines, alternators, compressors, generators, machine tools. Beam keying or bridge springier support construction. Assembly of metal reinforced concrete or prestressed concrete prefabricated elements.					
Advantages	ROCK GROUT BB80 is chloride free and contains no metal particles. Consequently, it does not oxidize when in contact with humidity. Instead it protects metal parts from corrosion owing to its high alkaline Ph. It has a unique 2-stage shrinkage compensating system, with a very special blend of shrinkage and water reducing, plasticizing agents, offering the following beneficial properties: High mechanical compressive and bending resistances. Adheres to concrete, mortar and steel, ensuring a monolithic bond. Can be pumped, injected, vibrated or compacted. It's not altered by large humidity or temp. variations. Resistant to water and oil penetration. High initial strength reduces down time requirement.					
Approvals / Standards U.S. Corps of Engineers: CRD C-621 expansion percent.						
	ASTM C-1107 for 2 stage expansion Grout Grades B+C. British Standards for compression, bond and flexural.					
Product Data Appearance / Colour	Grey Powder					
Packaging	25 kg paper bags					
Storage Conditions / Shelf Life	12 months from date of production if stored properly in unopened and undamaged original well sealed packing, protect from damp and high humidity conditions.					
Technical Data Base	Cement, selected fillers & aggregates and special additives					
Density (at 20° C)	approx. 2.2 kg/l (of the fresh mortar)					
Setting Time (at Initial S 20° C) Final S						
Al-Obour Building	s - Salah Salem Road - Nasr City - Cairo - Egypt. (b) +202 240 456 35					
10th Of Ramadan (
info@CityChem.n	et 🔰 @City_Chem f City Chem § +2010 672 213 44					
Implied. We Recommend Testing Our Pr No Warranties Of Any Kind, Either Expr Data or Information That Such Products,	Present Knowledge and Experiences. This Information Merely Describes the Properties of Our Products but No Guarantee In the legal Sense Shall Be oducts As To Their Suitability For Your Envisaged Purpose Prior To Use. ses or Implied Including Warranties of Merchantability or Fitness For a Particular Purpose Are Made Regarding Any Products Mentioned Herein and Data or Information May Be Used Without Infringing Intellectual Property Rights of Third Parties. nges According To Technological Progress or Further Developments. - Printed in Egypt - 2020.					

Mechanical / Physic Properties	al						
Compressive Strength	Test Sample Consistency						
(kg/cm ²)	Age in days		Plastic		Fluid		
	1		300		250		
	3		400		380		
	7		430		410		
	28		550 - 600		550		
	20		000 000				
Elevurel Strength	Test Sample Consistency						
Flexural Strength (kg/cm ²)	Test Sample		Plastic		Fluid		
(kg/cm)	Age in days	Age in days		_	43		
	28		33.5 110.5		43 118		
				I			
Pull out Strength	Test Sample	Test Sample Fluid Consistency					
(kg/cm ²)	Age in hrs		Tore steel		Smooth Steel		
(kg/off)	24		55		20		
	24		110		40		
	Note:Rock Grout BB steel adherence values in plastic consistency are equal to or greater than the above values.						
Adding Fillers	For large scale grouting projects, silica sand and gravel can be added to						
	Rock Grout BB where the added aggregate must be clean and properly graded.						
	Example: 12.5 kg of sand graded 1-10 mm to one 25 kg bag of Rock Grout BB						
	mixed with 3.5 - 4 Its. of water, yield a grout with the following approximate						
	mechanical strengths:						
	Test Sample	Com	pressive Strength		Flexural Strength		
	Age in days		(kg/cm ²)		(kg/cm ²)		
	1		250		-		
	7		360		40		
	28 580 114 Do not exceed 25 kg of sand per bag Rock Grout BB: sand = 1:1 by weight)						
		decreases	when the proportion	of sand a	added increase.		
Application Details	5						
Ambient Temperature	Minimum applicat	tion tempe	rature: + 5 °C.				
Mixing Ratio	Depending on th			ed a fluid	d or plastic mortar will be		
	obtained:		Consis		atanay		
	Ambient Temp.				5		
	degree (<i>C</i> .	Plastic (It/25kg)	Fluid (lt/25kg)		
	5		2.25		3		
	20		2.5		3.25		
	35 2.7 3.5						
	The above proportions should be complied with to avoid bleeding.						
Surface Preparation	The substrate must be properly prepared and free of dust and grease. Remove any losses particles which could affect the final ultimate bond strength.						
	Moisten concrete or mortar substrate for 12 hrs. before applying Rock Grout BB (surface saturated dry condition). This is extremely important during hot weather applications.						
Mixing	Blend in a mechanical mixing device, preferably in a vertical-axis mixer or in a fully – opening container, using a slow- rotating electric or pneumatic stirring drill (approx. 300 rpm).						
	Prepare the amount of water required to obtain the right consistency (refer to mixing ratio). Pour approx. 2/3 of the mix water into the mixer and gradually add Rock Grout BB this will help to avoid making lumps. Then pour in the rest of the water and let mix for a minimum of 3 minutes from the time the last water was added to the mix.						
	NOTE: Hand mixing does not ensure proper dispersion and is not recommended.						