

# TECHNICAL DATA SHEET



**RAKAM**



## 105 RAK NS GROUT

(Non-Shrink Grout)

**RAK NS GROUT** is a pre-mixed, cementitious non-shrink grout which requires only the addition of water to obtain a free flowing non-shrink grout of excellent performance.

ADVANTAGES	RESISTANCE TO HIGH TEMPERATURE:	ORDERING GUIDE														
<ul style="list-style-type: none"> <li>Non-shrink</li> <li>Pre-mixed and packed to avoid site variations and errors</li> <li>High bond strength to steel and concrete</li> <li>High early strength characteristics for rapid return</li> <li>Adjustable consistency</li> <li>High strength, impact resistance and durability</li> <li>Non-shrink properties give maximum contact with bearing surfaces</li> <li>Can be used up to a 80 mm thickness between plate and foundation</li> </ul>	<p>RAK NS Grout can withstand high temperature (+400°C) for very long periods without deteriorating substantially.</p>	<p>PRODUCT NO. 105</p> <p>STANDARDS ASTM C - 191, 878, 230 ASTM C - 827-78</p> <p>PACKAGING 25kg Paper / Plastic Bags</p> <p>COLOR Grey</p>														
	RESISTANCE TO CHEMICAL ATTACK	STORAGE														
	<p>RAK NS Grout is watertight and is protected against environmental aggressive agents in solution.</p>	<p>RAK NS Grout should be stored in dry premises, away from direct sunlight, wind and humidity</p>														
	APPLICATION	COMPRESSIVE STRENGTH														
	<p>Mix the powder with measured quantity of water for a minimum of 5 minutes to obtain a smooth, uniform lump free consistency. Approximately 5-6 liters of water is needed for 25 kg of powder. Pour the grout continuously to eliminate air pockets. For a thick consistency, 4-5 litres of water should be used and for dry packs 2.5 - 3 liters of water should be used.</p>	<p>N/MM2AT 20°C (BS/1881 Pt 116-1983)</p> <table border="1"> <tr><td>Day</td><td></td></tr> <tr><td>1</td><td>28</td></tr> <tr><td>7</td><td>57</td></tr> <tr><td>28</td><td>65</td></tr> </table>	Day		1	28	7	57	28	65						
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		FLEXURAL STRENGTH														
		<p>N/MM2AT 25°C (BS-4551 1980)</p> <table border="1"> <tr><td>Day</td><td></td></tr> <tr><td>1</td><td>5.2</td></tr> <tr><td>7</td><td>8.7</td></tr> <tr><td>28</td><td>10.8</td></tr> </table>	Day		1	5.2	7	8.7	28	10.8						
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		HEALTH AND SAFETY														
		<p>As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn (see packaging for specific instructions). Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting but call for medical assistance immediately. Ensure the container is available for the medical attendant to examine any relevant instructions and contents details. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labelling</p>														
TYPICAL PROPERTIES																
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BOND TO STEEL																
<p>The bond of RAK NS Grout to steel, calculated by applying loads to the bars undergoing pull-out tests and by the grout steel contact surface is:</p> <p><b>For plain bars:</b> 3 N/mm<sup>2</sup> at 7 days 4 N/mm<sup>2</sup> at 28 days</p> <p><b>For deformed bars:</b> 20 N/mm<sup>2</sup> at 7 days 30 N/mm<sup>2</sup> at 28 days</p>																
	SUPPORT															
	<p>Supports should be sound, clean and free of dust, demoulding materials, oil, paint, etc. Clean the area to be grouted with water 24 hours prior to grouting. The surface should be damp but strictly free of standing water. The bolt holes and other areas should be water free. Bare plates, bolts, etc. must be clean and free of oil, grease paint, etc. The form works should be leak proof.</p>															
	CLEANING															
	<p>Tools should be cleaned with water</p>															

