



**RAKAM**

# TECHNICAL DATA SHEET

## 601 RAK Anchor Fix 100N

High Strength Polyester Resin Based Anchoring Grouts



**RAK ANCHOR FIX 100N** is a Polyester Resin Based Anchoring Grouts suitably blended with Fillers and hardening materials. RAK Anchor fix a two component, pre-measured resin grout. After hardening the Grout has high mechanical properties.

USES	SURFACE PREPARATION	
<p>RAK Anchor Fix is used for High strength corrosion resistant anchoring of bolts and bars. from 12-25mm diameter into concrete ,rocks, masonry or brickwork where high speed of installation and early application of load is required. Permanent installation of reinforcement starter bars, tie-back anchors, foundation bolts reinforcement dowelling, barriers and safety fences, railway tracks, ground anchors for towers, cranes, dock sills etc.</p>	<p>Ensure the concrete foundation surface is dimensionally stable and free of dirt, dust, oil, laitance, paint, curing compounds etc. Bolt holes and fixing pockets should be blown clean of any dirt or debris. If possible a roughened surface is preferable to smooth surfaces. Metal surfaces must be free from rust, loose scaling and paint. Shuttering should be covered with polyethylene to ensure a clean release.</p>	<p>Add the powder component to the resin component and mix using a slow speed drill and paddle or by hand for 2-3 minutes until a uniform colour &amp; consistency is achieved. When a smooth, even consistency is achieved, the grout is ready for use. It must be placed well within the gel time of the grout.</p>
	<p><b>MIXING</b></p> <p>It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.</p> <p>Empty the resin into a suitable empty container with sufficient volume to accommodate the total yield of the material.</p>	<p>ALWAYS ADD THE POWDER TO THE RESIN. DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.</p>
<p><b>ADVANTAGES</b></p> <p>Rapid Strength gain Non Expansive Vibration resistant Corrosion resistant Can be used for wet and damp conditions Can be placed under water</p>		

**TYPICAL PROPERTIES**

Mixed Form	Pourable
Mixed Density	1.85kg/1tr±0.05
Gel Time	20 mins 30°C
Service Temp	+5°C to 55°C
Drying Time	Min 6 Hours
Tensile Strength - 6319-7 BS	14N/mm² @ 7 Days
Flexural Strength - 6319-3 BS	Min 22 N/mm² @ 7 Days
Compressive Strength - 6319-Part2 1983 BS	1hr@23°C - 60N/mm² 7days@23°C 100N/mm²

To determine the quantity of material per 100 mm of hole depth  
Bolt Diameter

Hole Dia	16	20	32	38
25	32	20		
32	66	54		
45			87	50
57			192	156





STORAGE & SHELF LIFE	LIMITATIONS	HEALTH AND SAFETY
<p>RAK Anchor fix as supplied shall be stored in a cool, dry place away from sunlight, moisture, high humidity. RAK Anchor fix have a shelf life of 6 Months max at 20 C if kept in a dry store in the original, unopened packs.</p> <p>Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.</p>	<p>At permanent operating temperatures above 40C the creep of RAK Anchor fix may become significant.</p> <p>RAK Anchor fix should not be used where structural load bearing performance has to be maintained in anchors subjected to fire conditions.</p> <p>For application below 5C, seek advice from Manufacturer.</p>	<p>Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.</p> <p>Should contact with skin or eyes occur, wash immediately with plenty of water and seek medical advice.</p> <p>If swallowed seek medical attention immediately. Do not induce vomiting.</p> <p>Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.</p> <p>Do not expose products to fire or naked flames under any circumstances.</p> <p>Always refer to the product Material Safety Data Sheet (MSDS) for full health &amp; safety and handling recommendations.</p>
<p><b>PLACING</b></p> <p>Ensure that sufficient mixed material is available to complete the work and achieve a continuous filling operation. Calculated volume of mixed grout should be poured steadily into the prepared holes. The anchor bar should then be pressed into the hole to the required depth. Slight agitation of the bar will greatly assist in achieving a complete bond. The bar should be left undisturbed in the required position until the grout has hardened fully.</p>		