

## TUNNEL GROUT

**LOW TEMPERATURE CURE  
HIGH FLUIDITY AND MOISTURE TOLERANT  
HIGH EARLY STRENGTH  
SIMPLE MIXING PROCEDURE FOR FAST  
INSTALLATIONS**

### PRINCIPAL USES

Grouting rail chairs to preset levels in tunnels where low temperatures and damp substrates are encountered. Effective horizontal flow without pressure between 5 to 35mm gaps. Grouting holding down bolts, anchors and dowels where high early strength is desired, allowing for quick turn-around time.

### INSTRUCTIONS

All surfaces shall be free of oil, grease, laitance and contaminants. Surfaces must be clean, sound and roughened to ensure a good bond, as per 1 or 3 of "Surface Preparation Methods". Formwork should be liquid tight and strong enough to resist forces developed during placement. Head feeders with funnel openings should be placed so that continuous pressure feed of grout is possible.

### MIXING

Remove the two tins from the 5 litre bucket. Mix the liquid of the small Activator tin into the Base tin for 1 minute at 25°C. At 12°C, mix for 2 minutes. Add the mixed liquid resin to the aggregate in the 5 litre bucket and mechanically mix for 1 minute at slow speed, 50 to 250 RPM, taking care not to aerate. At low temperatures, allow the product to stand in the 5 litre bucket for 5 minutes to de-aerate and start reacting before use.

### PLACEMENT

Substrates are to be clean, sound and roughened to expose a well-bonded main aggregate. Pour through a funnel allowing a head of material to pressure flow the Pro-Struct 502 from one side of the cavity to the other. Ensure all entrapped air is bled from the system. Pre-warming of substrates and material with lamps will accelerate the cure if temperatures below 5°C are encountered.

### CLEANING

All tools and equipment must be cleaned immediately with Pro-Struct 105 Brush Cleaner and rinsed off in clean water.

### PRECAUTIONS

- DO NOT attempt to install material if temperatures of the material and substrate are not within 5-30°C. The curing time and application properties are severely affected.
- Store material indoors under dry conditions above 5°C. Do not allow product to freeze.
- If the product becomes crystalline, place the containers in a hot water bath or a thermofan oven set at 60-70°C for 3 hours. After stirring, allow to cool before use.
- Avoid skin contact with material. Protective creams, rubber gloves and safety glasses must be worn.

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### TYPICAL PROPERTIES AT 25°C

Colour	Grey	
Consistency	Pourable liquid	
Volume Solids	100%	
Theoretical Coverage	1m <sup>2</sup> /3 litre kit at 3mm thick	
No. of Components	3	
Mixing Ratio	Mix complete kit	
Pot Life	5-8 Minutes at 25°C 10-15 Minutes at 12°C	
<b>Compressive Strengths ASTM C579B 50mm Cube</b>		
	<b><u>MPa</u></b>	
	<b>12°C</b>	<b>25°C</b>
2 Hours	6	14
4 Hours	18	30
1 Day	27	75
7 Days	>90	>90
Bond to Concrete	Concrete failure	
Application Temperature	5-30°C	
Shelf Life	18 to 24 Months	

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