

**FIVE STAR FLUID GROUT 100**

**NON-SHRINK FROM TIME OF PLACEMENT  
EXTREMELY FLUID WITH NO SEGREGATION  
PROVIDES PLACEMENT VERSATILITY  
PUMPED OR Poured INTO PLACE  
MEETS PERFORMANCE REQUIREMENTS OF ASTM  
C-1107 & CRD C-621**

**PRINCIPAL USES**

- Grouting of machinery baseplates with tight clearances, down to 13mm.
- Support of tanks and vessels and pre-placed aggregate grouting.
- High 24 hour strength for reduced start-up times.

**PLACEMENT GUIDELINES  
SURFACE PREPARATION**

All surfaces in contact with Five Star Fluid Grout 100 shall be free of oil, grease, laitance and other contaminants. Surfaces should be prepared in accordance with 1 or 3 of "Surface Preparation Methods". Concrete must be clean, sound and roughened to ensure a good bond. Soak concrete surface for 8-24 hours prior to application with liberal quantities of potable water, leaving the concrete saturated and free of standing waters.

**MIXING**

Mix Five Star Fluid Grout 100 thoroughly for approximately 5 minutes to a uniform consistency with a mortar mixer. Mix to a flow of 30-50 seconds through a flow cone per ASTM C-939 and CRD C-611. Working time is approximately 30 minutes at 23°C. Do not exceed the maximum recommended amount of water as stated on the package, or to a consistency that will cause segregation. Do not re-temper the mix by adding more water – it will cause shrinkage and cracking.

**METHODS OF PLACEMENT**

Five Star Fluid Grout 100 may be poured or pumped into place. For pumping applications and for placement thickness of less than 13mm or greater than 75mm, call the StonCor Africa Technical Department.

**POST-PLACEMENT PROCEDURES**

Grout shoulders may be cut back in approximately three hours after placement. Five Star Fluid Grout 100 shall be wet cured for a minimum of three days, or coated with an approved curing compound after a minimum 24 hour wet cure. In-service operation may begin immediately after the required grout strength has been reached. Protect from rain, wind and rapid evaporation for 24 hours after application.

**Note:** Prior to application, read all product packaging thoroughly. For more detailed placement procedures, refer to Design-A-Spec installation guidelines or call the StonCor Africa Technical Department.

**LIMITATIONS**

- At time of placement, if temperatures of equipment and surfaces are not between 4°C and 32°C, refer to Design-A-Spec for cold and hot weather grouting procedures.
- Never exceed the maximum water content as stated on the bag or add an amount that will cause segregation.
- For placements thinner than 13mm or greater than 75mm, call StonCor Africa Technical Department.
- Construction practices dictate concrete foundation should achieve its design strength before grouting.
- Do not hand-mix Five Star Fluid Grout 100.

**CAUTION**

Contains cementitious material and crystalline free silica. International Agency for Research on Cancer has evaluated that there is sufficient evidence for the carcinogenicity of inhaled crystalline free silica to humans. Take appropriate measures to avoid breathing dust. Avoid contact with eyes and contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Immediately call a physician. Wash skin thoroughly after handling. Keep product out of reach of children. Prior to use, refer to material safety data sheet.

**TYPICAL PROPERTIES AT 25°C**

<b>Early Height Change ASTM C-827</b>	0.0 – 4.0%		
<b>Hardened Height Change ASTM C-1090</b>	0.0 – 0.3%		
<b>Effective Bearing Area</b>	95%		
<b>Bond Strength ASTM C-882</b>	28 Days – 13 MPa		
<b>Pull-out Strength</b>	7 Days – 13 MPa		
<b>Compressive Strength ASTM C-942 (C-109 Restrained)</b>	<b>Min Water MPa</b>	<b>Max Water MPa</b>	
	3 Days	>35	>20
	7 Days	>50	>35
	28 Days	>60	>45
<b>Yield</b>	25kg yields ± 14 litres		
<b>Working Time</b>	30 Minutes		
<b>Shelf Life</b>	1 Year in original plastic shrink wrapped pallet, when stored in dry conditions. Individual bags have limited shelf life. High humidity will reduce shelf life.		

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