

**Non-Shrink Structural Grout**

**DESCRIPTION** • *PatchCrete 601* is a high performance, non-shrink, precision grout designed for a wide range of consistencies from damp pack to high fluidity for maximum flow ability and strength.

*PatchCrete 601* is a blend of cement and specially blended aggregates, water retentive admixtures, and expansive admixtures to which only water is added at the job site. It is formulated to have no shrinkage in the moisture state.

**USES** • *PatchCrete 601* is recommended for grouting machine bases and column base plates, and filling tie rod holes, anchor bolts, dowels, crane rails and handrails which require non-shrink, high tolerance and high strength grouts. *PatchCrete 601* may also be used for reprofiling of foundation pile cap heads.

**ADVANTAGES** •

- ✓ Holds up to machinery vibration and impact.
- ✓ Flowable and self-leveling for easy placement.
- ✓ High strength for heavy equipment.
- ✓ Excellent water resistance properties.
- ✓ Positive expansion for maximum bearing.
- ✓ Excellent adhesion to concrete and steel.
- ✓ Shrinkage compensated.
- ✓ Very high early strength.

**TECHNICAL DATA** •

Consistency	Plastic	Flowable	Fluid
<b>Water Content (liter)/35 bag</b>	5.18	5.95	7.50
<b>Setting Time</b>			
Initial	30 min.	40 min.	2:55 hrs.
Final	45 min.	60 min.	4:20 hrs.
<b>Expansion Percentage (CRD C-621)</b>			
@ 3 days	0.061	0.049	0.036
@ 14 days	0.063	0.049	0.037
@28 days	0.065	0.051	0.038
<b>Compressive &amp; Flexural Strength per BN EN-196</b>			
	Compressive (N/mm <sup>2</sup> )	Flexural (N/mm <sup>2</sup> )	
@ 3 days	46.7	7.87	
@ 7 days	58.7	10.07	
@28 days	74.2	10.70	

**COVERAGE** • When mixed with 5.7 liters of water, a 35 kg bag will yield 0.0195 cu meters (in flowable state).

**LIMITATIONS** • Do not mix or apply if ambient temperature is expected to drop below 5°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24 hour period after application. Avoid working in direct sunlight. Temporary protection from weather and other damage must be provided at all times until entire job is completed. **DO NOT OVER WATER** – this can cause bleeding or separation. Do not re-temper. **DO NOT MIX MORE THAN CAN BE USED WITHIN 30 MINUTES.**

**SURFACE PREPARATION** • Remove all dirt, oil, loose or foreign material. Any metal in contact with grout must be free of rust, oil, grease, etc. Surface must be sound and roughened to insure proper bonding. Prior to placing grout, surface should be saturated for a minimum period of four hours and preferably twenty four hours.

Remove all excess water before placement of grout. Bolts, base plates, and equipment must be secure and rigid before placement of grout.

**Forms:** Must allow for a continuous placement of grout. Provisions for venting to avoid air entrapment must be made. From the placing side, provide a 45° angle in the forms to a height suitable to provide a head of grout during placement. On all sides provide a minimum 12 mm horizontal clearance between the base plate and forms. Forms should be at least 25 mm higher than the bottoms of the plate.

**MIXING** • Use a mechanical mixer. For small jobs, use a ½" drill with paddle; for large jobs, use a mortar mixer. Start with minimum water requirements. Add water to mixer first, while slowly adding powder. Add additional water as required for desired consistency. Water requirements per 35 kg bag are:

Mortar:	3.9 to 4.6 liters
Plastic:	4.9 to 5.2 liters
Flowable:	5.2 to 6.0 liters
Fluid:	6.0 to 7.5 liters

**AGGREGATES** • Depending on grouting height, *PatchCrete 601* is supplied factory-blended, ready-to-use in the following three sizes:

Grouting Height	Aggregate Size	PC 601 Grade
< 20 mm	1 mm	Fine
15 - 30 mm	3 mm	Medium
40 - 100 mm	8 mm	Coarse

To eliminate the need to stock coarse grade for deep applications, 8 mm pea gravel may be added

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to fine grade PatchCrete 601 in the following proportions:

- 40-100 mm height: add 25% 8 mm pea gravel by weight.
- > 100 mm: add 50% 8mm pea gravel by weight.

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**APPLICATION** • Placement should be done in a continuous and rapid manner. Place the grout within 15 minutes of mixing. Avoid working during the hottest time of the day. Placement should preferably be done in a shaded area. Start from one side to avoid air entrapment and pour grout in a continuous manner while filling voids. Be sure grout fills all spaces and remains in contact with plate. DO NOT VIBRATE.

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**CURING** • Immediately cover with clean wet rags and keep exposed areas moist until final set.

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**CLEANING** • Clean all tools and equipment promptly with clean water.

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**STORAGE** • Keep material covered and off the ground to prevent exposure to moisture. Store in a dry area. When stored at specified conditions in original unopened packaging, shelf life is 12 months from date of purchase.

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**SAFETY PRECAUTIONS** • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Portland cement products present health hazards. Irritating to eyes and skin. Use in adequate ventilation and do not breathe dust. Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

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**PACKAGING** • 25 kg paper bags.

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### Creative Concrete Concepts

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