

# FAST SET PATCHING CONCRETE

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## PRODUCT

TARGET® Fast Set Patching Concrete consists of accurately weighed Portland cement, fine aggregate and admixtures. The concrete will be fast setting and have high strength and little or no plastic shrinkage. An air-entraining agent is included in this product to give improved resistance to freezing and thawing.

## TYPICAL PROPERTIES OF FAST SET PATCHING CONCRETE at stiff plastic consistency

<b>FLOW</b> , %, ASTM C109-93	90 - 110
<b>COMPRESSIVE STRENGTH</b> , ASTM C109 MPa (lb/in <sup>2</sup> ) at 3 days at 7 days at 28 days	27 (3,900) 40 (5,800) 50 (7,300)
<b>DENSITY</b> , kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	2,000 – 2,150 (125-135)
<b>BLEEDING</b> , % volume	0
<b>SETTING TIME</b> , ASTM C807, at 20°C	Approximately 1 1/2 hours
<b>VOLUME CHANGE</b> , % Expansion, CRD-C621	0.02 max.
<b>CALCIUM CHLORIDE CONTENT</b>	Nil
<b>APPROXIMATE YIELD</b> bags/m <sup>3</sup> bags/yd <sup>3</sup> liters/bag ft <sup>3</sup> /bag	74 57 13.5 0.48

At a thickness of approximately 6mm (1/4 inch), each 25 kg (55 lb) bag of TARGET Fast Set Patching concrete will cover approximately 2m<sup>2</sup> (22 ft<sup>2</sup>).



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## USES

- TARGET Fast Set Patching Concrete is designed for uses such as the following:
- To repair honeycombing, rock pockets, chips, spalls and minor accidental damage in concrete structures.
- To plug form tile holes and other small holes in concrete and masonry.
- To point joints in masonry, concrete pipe or precast concrete units.
- As concrete bonding slurry when mixed with a blend of 1 part TARGET Polymer Bonding Agent to 2 parts water by volume.
- As a polymer-modified concrete repair or resurfacing material when mixed with a blend of 1 part TARGET Polymer Bonding Agent to 3 parts water by volume and applied in thicknesses of up to 19 mm (3/4 inch).
- To anchor posts, signs, railings and other fixtures in concrete or masonry.

## COLOR

Similar to Portland cement concrete

## PROCEDURES

1. Prepare the repair areas by chipping, saw-cutting, sandblasting or other means that will ensure that deleterious materials are removed. It is always preferable to have a 10 mm (3/8 inch) minimum vertical edge where contact between new and old concrete occurs. Feather edging is generally not recommended, except when TARGET Polymer Bonding Agent is included in the mix.
2. Remove any dust or loose material from the area to be patched or filled. The surface should be thoroughly saturated with water and maintained wet for at least one hour before filling operations begin. Remove all free surface water and allow the surface to become "surface dry" just prior to filling.
3. In smaller patches and joints, bonding agents are generally not necessary. In large patches in slabs or walls the bond strength can be increased by first scrubbing the area to be filled with a slurry of TARGET Fast Set Patching Concrete mixed with a blend of 1 part by volume of TARGET Polymer Bonding Agent to 2 parts by volume of water. The use of TARGET Polymer Bonding Agent will also give improved resistance to penetration by water and de-icing salts.
4. In a clean mixing container add clean water (the amount of water will vary with the amount of Fast set required). Add Fast Set and mix thoroughly until a stiff plastic or dry pack consistency is attained. In place of straight

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water a blend of 1 part by volume of TARGET Polymer Bonding Agent to 3 parts by volume of water may be used as the mixing liquid for the repair mix to obtain improved bonding. This procedure should be used only if a slightly darker color of the repair material is acceptable. The temperature of the mix should be 10°C to 24°C (50°F to 75°F).

5. Mix only as much material as can be used within 30 minutes after the addition of mixing liquid.
6. Place the repair mix in the prepared area and firmly consolidate. Strike off level with a trowel or float and wait approximately 10 to 15 minutes before applying the final finish.
7. Adequate curing is extremely important. As soon as the concrete has hardened, maintain the patch in a continuously damp condition for not less than 24 hours by water spray, ponding, wet burlap or plastic. Protect from temperatures below 5°C (41°F) or above 35°C (95°F) for at least 72 hours after placing.

## CAUTION

- TARGET Fast Set Patching Concrete is intended for use in a dry pack or stiff plastic consistency in a thickness of up to 75mm (3 inches). Where a pourable material is required consult TARGET Products Ltd.
- TARGET Fast Set Patching Concrete is a cement rich material, and while it is formulated for minimum plastic shrinkage, it is not recommended for use in large exposed areas with a potential for drying shrinkage cracking.
- It is not recommended for use under machinery or rails subjected to severe repetitive impact or vibration. Contact your TARGET representative for information on TARGET grouts for use in these situations.
- Do not apply TARGET Fast Set Patching Concrete when the surface temperature of the area to be repaired is less than 5 °C (41 °F). or more than 35 °C (95 °F).

## SPECIFICATION GUIDE

Patching mortar shall be a Portland cement based system such as TARGET Fast Set Patching Concrete or an approved equal. Patching mortar shall contain no calcium chloride or gypsum. The patching mortar shall have a positive volume change on setting of not more than 0.02% and develop a compressive strength of not less than 24 MPa (3,500 lb/in<sup>2</sup>) at 3 days and 48 MPa (7,000 lb/in<sup>2</sup>) at 28 days.

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