

# MATCH PATCH

## PATCHING CONCRETE

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### PRODUCT

TARGET® Match Patch 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 MATCH PATCH 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) 35 (5,075) 42 (6,090)
<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

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

### USES

- TARGET Match Patch 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 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

TARGET's Match Patch Patching Concrete will set to a lighter color resembling that of a Portland cement concrete, for those patches that require a more consistent uniform color to an existing concrete slab, wall or masonry structure.

### 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 (0.4 inch) minimum vertical edge where contact between new and old concrete occurs. 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.
2. Empty TARGET Match Patch Patching Concrete into a clean wheelbarrow, pail or mixer and add clean water. Mix thoroughly until a

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- stiff plastic consistency is achieved. (Certain applications may require a dry pack consistency.) The temperature of the mix should be 10 °C to 24 °C (50 °F to 75 °F).
3. Mix only as much material as can be used within 30 minutes after the addition of mixing liquid.
  4. 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.
  5. 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, or use TARGET Cure & Seal. Protect from temperatures below 5 °C (41 °F) or above 35 °C (95 °F) for at least 72 hours after placing.

### CAUTION

- TARGET Match Patch Patching Concrete is intended for use in a dry pack or stiff plastic consistency in a thickness of up to 75 mm (3 inches). Where a pourable material is required consult Target Products Ltd.
- TARGET Match Patch 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 Match Patch Patching Concrete when the surface temperature of the area to be repaired is less than 5 °C (41 °F).

### SPECIFICATION GUIDE

Patching mortar shall be a Portland cement based system such as TARGET MATCH PATCH 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 (6,090 lb/in<sup>2</sup>) at 28 days.

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### PACKAGING

TARGET Match Patch is available in 25 kg (55 lb) bag 56 bags per pallet.

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