

TRAFFIC PATCH

FINE & COARSE

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PRODUCT

TARGET® Traffic Patch consists of specially modified Portland cement and aggregates combined in closely controlled proportions to give a rapid setting material for the repair of concrete. The product meets the requirements of ASTM C928 for very rapid hardening concrete repair materials. The rapid strength gain properties are maintained at temperatures as low as 3°C (37°F). The product contains no calcium chloride or other admixtures likely to accelerate the corrosion of reinforcing steel.

TARGET Traffic Patch is available in Fine and Coarse aggregate gradations. The TARGET Traffic Patch Fine incorporates polypropylene fibers and is intended for use in patches up to 25mm (1 inch) thick. The TARGET Traffic Patch Coarse incorporates 30mm long steel fibers and is designed for use in patches with thicknesses of more than 25mm (1 inch).



COLOR

Concrete grey

USES

TARGET Traffic Patch is designed for use as a repair material for cast-in-place or precast concrete where rapid setting and strength gain of the repair are required. Typical applications include patching of bridge decks, roads, curbs, sidewalks, parking decks and warehouse floors where the repaired area must be returned to normal service conditions within two hours of placing the repair mix.

YIELD

When mixed as directed, each 25 kg (55 lb) bag of TARGET Traffic Patch will yield approximately 0.43ft³ (12.1 liters) of repair material.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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TYPICAL PROPERTIES

When mixed with sufficient water to give a slump of 90 to 100mm (3 1/2 to 4 inches), TARGET Traffic Patch has the following typical properties:

PROPERTY	TYPICAL VALUE		
SETTING TIME , ASTM C403, minutes Initial at 20° C (68°F) Final at 20° C (68°F)		25	
		45	
WORKING TIME , minutes, at 20°C (68°F)		20	
AIR CONTENT , % Volume		5	
COMPRESSIVE STRENGTH	MPa	lb/in²	
	at 1 hour after initial set	14.8	2,150
	at 3 hours after mixing	20.7	3,000
	at 6 hours	23.8	3,450
	at 24 hours	34.5	5,000
	at 28 days	51.7	7,500
Scaling Resistance in Presence of Deicing Salt. ASTM C672 after 50 cycles of freezing and thawing.	No Scaling (Rating 0)		

NOTE:

1. These properties are typical for mixing and initial curing temperatures of 21°C (70°F).
2. Compressive strength determined on 50mm (2 inch) cube specimens for Fine mix and 100mm (4 inch) diameter cylinders for Coarse mix, moist cured at 23 ± 2°C (73 ± 3°F) after 24 hours.

PROCEDURES

1. Remove loose or unsound concrete and other deleterious materials by chipping; saw cutting, scarifying, sandblasting or other mechanical means. A minimum repair thickness of 12mm (1/2 inch), with square cut edges, is preferable. Feather edging is not recommended.
2. Remove dust or loose material from the repair area.
3. Saturate the repair area with water, and then allow the concrete to come to a surface-dry condition just before placing the repair mix.
4. Select the appropriate grade of TARGET Traffic Patch for the repair area:
FINE: for areas 25mm (1 inch) or less in thickness.
COARSE: for areas more than 25mm (1 inch) in thickness.
 NOTE: Traffic Patch without fibers can be manufactured on special request.

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5. Add approximately three-quarters of the required water to the mixer. 1.5 liters (3.3 lb or 1.5 US quarts) of water is usually sufficient at this stage for each 25 kg (55 lb) bag of product. DO NOT exceed 3.3 liters (3.5 US quarts) of liquid per 25 kg (55 lb) bag of Fine mix, or 3.0 liters (3.2 US quarts) per 25 kg (55 lb) bag of Coarse Mix. Water and mix temperatures, and the temperature of the surface to which the mix is to be applied, should be not less than 3°C (37°F) and not more than 30°C (86°F). During warm weather the use of iced water can reduce mix temperatures and prevent excessively short setting times. During cold weather the use of hot water, and storage of TARGET Traffic Patch in a warm, dry place before use, will prevent excessively long setting times.
6. Mix until the material has been thoroughly blended and the required consistency has been obtained. A mixing time of 2 minutes is usually adequate.
7. Place the mixed material as rapidly as possible and consolidate well to ensure freedom from voids. Work the mix into the prepared concrete surface to ensure bonding over the full area.
8. If material in the mixer begins to thicken or set, discard the mix. DO NOT add more water.
9. Complete surface finishing operations as quickly as possible. Any conventional concrete finishing techniques may be used.
10. Clean the mixer between batches. Partially set material in the mixer can accelerate the setting of subsequent batches.

CURING

- Under normal conditions moist curing of TARGET Traffic Patch for 24 hours is desirable, but not essential.
- In hot, dry or windy weather conditions, apply TARGET Cure & Seal, or an equivalent curing compound, to the repaired area as soon as the repair material has set.
- Protect from freezing for the first 24 hours, and from temperatures below -3°C (27°F) for 72 hours.

CAUTION

- TARGET Traffic Patch is designed for use only as a patching or filling material.
- In cases where the appropriate grade of TARGET Traffic Patch for a repair is not clear, contact Target Products Ltd or your TARGET distributor for advice.

SPECIFICATION GUIDE

Repair concrete shall consist of premixed, dry ingredients produced and packaged in accordance with ASTM Standard C928 for “very rapid hardening” cementitious materials for concrete repairs. When mixed and placed in accordance with the manufacturer's directions, the repair concrete shall develop a compressive strength of not less than 17 MPa (2500 lb/in²) after three hours at 21°C (70°F).

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