

FLOWCRETE

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PRODUCT

TARGET® Flowcrete consists of accurately weighed Portland cement, aggregates and chemical admixtures. The product is designed to be used as original or repair concrete in situations requiring a high-quality concrete with a maximum aggregate size of 10mm (3/8 inch). It may be mixed to any consistency from stiff plastic to flowing. An air-entraining agent is incorporated in the dry product to produce a concrete having good resistance to freezing and thawing. Shrinkage compensating agents are included to minimize plastic shrinkage. On request, Target Flowcrete based on Type 50 (Type V) cement can be supplied for use in areas requiring sulphate-resistant cement. TARGET Flowcrete with Silica Fume is also available for applications requiring reduced permeability.

TYPICAL PROPERTIES OF TARGET FLOWCRETE

MIX CONSISTENCY	FLOWABLE	PLASTIC	STIFF PLASTIC
WATER ADDED kg/25 kg bag (lb/55 lb bag)	2.6 (5.7)	2.4 (5.3)	2.25 (5.0)
SLUMP , mm (in) CSA A23.2-5C	255(10)	125(5)	25(1)
FLOW , cm (in) DIN 1048	60(23.6)	40(15.7)	30(11.8)
AIR CONTENT , % volume* CSA A23.2-4C	6.2	5.8	4.6
VOLUME CHANGE % expansion Prior to initial set, unrestrained, CSA A23.2-1B After final set, CRD-C621 at 3 days at 7 days at 28 days	0 0.02 0.02 0.02	Trace 0.01 0.01 0.01	0.6 0.01 0.01 0.01
COMPRESSIVE STRENGTH MPa (lb/in ²) CSA A23.2-3C,9C 100mm diameter cylinders at 1 day at 3 days at 7 days at 28 days	13 (1900) 25 (3600) 34 (4900) 40 (5800)	20 (2900) 35 (5100) 44 (6400) 50 (7300)	23 (3300) 42 (6100) 52 (7500) 60 (8700)

* The exact air content will vary, depending on the consistency of the mix and mixing procedures adopted. The values given are typical for rotating drum mixers.

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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USES

TARGET Flowcrete is designed for uses such as the following:

- Grouting of keyways or general grouting operations where a maximum aggregate size of 10mm (3/8 inch) is desirable.
- Levelling beds with a thickness of 25mm (1 inch) or more.
- Void filling where a 10mm (3/8 inch) aggregate is desirable or where the minimum dimension of the pour exceeds 25mm (1 inch). For smaller dimensions, use TARGET Machine Base Grout, TARGET Portland Expanding Grout or TARGET 1118 Grout.
- Structural repairs and applications requiring a high quality concrete at any consistency between stiff plastic and flowing where the quantities involved or placement conditions make the use of conventional ready-mixed concrete impractical. On request, silica fume can be included in the mix to give reduced permeability.

PROCEDURES

1. Prepare existing concrete surfaces for application of TARGET Flowcrete by thoroughly cleaning, using appropriate techniques to remove dirt, oil, laitance, efflorescence or deteriorated concrete.

Note: In some cases, such as overlays, levelling beds or repair work, a bonding slurry of TARGET Fast Set Patching Concrete with a mixture of one part by volume of TARGET Polymer Bonding Agent to two parts by volume of clean water is required. See product literature for TARGET Polymer Bonding Agent for additional details. Placing of TARGET Flowcrete over the slurry coat should be completed before the slurry dries and within one hour of mixing the slurry.

2. Add clean water to a suitable mixing container. Appropriate mixers include Jiffler or paddle mixers powered by a 1/2 inch drill, or conventional mortar or concrete mixers where batch sizes warrant the use of a larger mixer. Rotating drum mixers are suitable only if the batch size is 50% to 75% of the nominal capacity of the mixer, and the mixer fins are in good condition.
3. Add TARGET Flowcrete to water with continuous mixing to achieve the required consistency.
4. Mix for not less than 2 minutes. If a mixing period of less than 5 minutes is used, remix before placing.
5. Place and consolidate within 30 minutes of mixing, using methods suited to the application and consistency required.
6. Use conventional concrete finishing procedures to obtain the required surface finish. The use of magnesium or Plexiglass trowels has been found to give improved finishes to flatwork.
7. Place only at ambient temperatures above 5°C (40°F) and below 30°C (86°F). Protect from freezing and from temperatures above 35°C (95°F) during the first three days after placing.

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CAUTION

TARGET Flowcrete is a cement-rich material and while it is formulated for minimum plastic shrinkage it should be used with caution in large exposed areas in excess of 10 ft². Adequate moist curing for at least 3 days from the time of placing is essential to reduce the potential for drying shrinkage cracking.

APPROXIMATE YIELD

CONSISTENCY	FLOWING	PLASTIC	STIFF PLASTIC
bags/m ³	80	82	84
bags/yd ³	61	63	65
ft ³ /bag	0.44	0.43	0.42

Based on 25 kg (55 lb) bag.

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