

FLOWCRETE WITH 5% SILICA FUME

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PRODUCT

TARGET® Flowcrete with 5% Silica Fume consists of accurately weighed Portland cement, aggregates and chemical admixtures. The product is designed to be used as a 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 flowable. 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.

TYPICAL PROPERTIES OF TARGET FLOWCRETE WITH 5% SILICA FUME

MIX CONSISTENCY	FLOWABLE	PLASTIC
WATER ADDED Litres/25 kg bag US gallons/55 lb bag	2.6 .687	2.4 .634
RAPID CHLORIDE PERMEABILITY (ASTM C1202)	1002 (Low)	1002 (Low)
SLUMP , mm (inches) CSA A23.2-5C	203(9)	125 (5)
FLOW , cm (in) DIN 1048	60(23.6)	Not Applicable
COMPRESSIVE STRENGTH MPa (lb/in ²) ASTM C109 (CSA A23.2-3C,9C) 100mm diameter cylinders at 1 day at 7 days at 28 days	30 (4351) 45 (6527) 60 (8702)	40 (5802) 50(7252) 70 (10,150)
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	0 0.01 0.01 0.01
AIR CONTENT , % volume* CSA A23.2-4C	5.8	5.1

* 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 with 5% Silica Fume 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.
- In surfaces requiring Class C1 Exposure Classification (CSA A23.1-04) including bridge decks, parking decks and ramps, portions of marine structures located within the tidal and splash zones, concrete exposed to seawater spray, and salt water pools.

PROCEDURES

1. Prepare existing concrete surfaces for application of TARGET Flowcrete with 5% Silica Fume by thoroughly cleaning, using appropriate techniques to remove dirt, oil, laitance, efflorescence or deteriorated concrete. Mechanically roughening Host concrete surfaces may be required. Bring existing concrete surface to SSD (Saturated Surface Dry) to ensure a firm bond.

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 with 5% Silica Fume 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.

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3. Add TARGET Flowcrete with 5% Silica Fume 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.

CAUTION

TARGET Flowcrete with 5% Silica Fume 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.

CHARACTERISTICS

COLOUR -	Uniform Gray
SHELF LIFE -	1 (one) year from date of manufacture when stored in a dry, protected and heated environment. (Production date and batching number stamped on side of each bag.)
HEALTH AND SAFETY -	Please consult Target Products Ltd. Material Safety Data Sheets for personal exposure risks and safe handling procedures.

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