

## 1135 - Flowcrete FS SCC (Self-Consolidating Concrete)

### PRODUCT

TARGET FLOWCRETE FS SCC is a pre-packaged high performance self-consolidating concrete. The granulars sizes distribution optimized (using 10 mm nominal diameter coarse aggregates), the binder content (cement and pozzolanic), admixtures dosage, production process and quality control procedure make it possible to obtain a product exceeding the most stringent specifications.

TARGET FLOWCRETE FS SCC is a adapt rheology repair concrete that can be installed without vibration, no bleeding and / or segregation.

**TARGET FLOWCRETE FS SCC is approved by MTMD (Quebec DOT) as self consolidating pre-packaged concrete.**

### USE

- For new repair requiring a repair C-XL exposure class (CSA A23.1), including structural reinforcement of concrete exposed to high chlorides content or other severe environmental conditions, eg, freeze / thaw condition.
- Structural new/repairs, bridges, tunnels, dams, highway, water basins, wharves, slabs on the ground, structural slab, bases of machineries, precision repairs, etc ...
- Open or closed formwork.

### TECHNICAL DATA

Test	Maturity	Results*
Density [Kg/m <sup>3</sup> (lbs/ft <sup>3</sup> )]	-	2,200 (137)
Slump flow [mm (inch)] ASTM C 143	-	600-700 (23.6-27.6)
Air content [%] ASTM C231	-	6 - 9
Compressive strength [Mpa (psi)] ASTM C 1604	1 day	13.0 (1,885)
	2 days	20.0 (2,900)
	7 days	30.0 (4,351)
	28 days	45.0 (5,800)
Flexural strength [Mpa (psi)] ASTM C 78	7 days	5.0 (725)
	28 days	6.0 (700)
Slant shear bond strength ASTM C 882 – CSP equivalent to 2-3	7 days	8.2
	28 days	15.2
Absorption [%] ASTM C642	28 days	2.7
Air void permeability [%] ASTM C642	28 days	6.4
Rapid chloride permeability [Coulombs] ASTM C 1202	56 days	264 – Very low
Scaling [Kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )] BNQ 2621-900	56 cycles	≤ 0.04 (0.008)
Freeze / thaw resistance [%] ASTM C 666	313 cycles	96 Excellent durability factor

\* Tests performed by an independent laboratory under laboratory conditions.



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### PROCEDURES

#### Surface preparation of the substrate

- Prepare concrete substrate prior to application of TARGET FLOWCRETE FS SCC
- The perimeter of the repair must be made with a saw to a minimum thickness of 20 mm (1 in).
- To optimize the bonding between the concrete substrate and the TARGET FLOWCRETE FS SCC, a surface roughest of  $\pm 3$  mm is suggested, for more information, consult the guide # 310.2R-2013, CSP 6 of the International Concrete Repair Institute (ICRI).
- If rust is present on the rebar, it must be cleaned with a sandblast or brushed to eliminate rust. In most cases, it is advisable to remove more material behind the rebars to completely expose it for thorough cleaning .
- Remove any unsecured, or delaminated, dirt, oil, dust, paint, sealant, bitumen, or other products decreasing the adhesion between the substrate and TARGET FLOWCRETE FS SCC.
- Cleaning the substrate surface with potable water is required.
- Before application of TARGET FLOWCRETE FS SCC, the substrate must be in Saturated Surface Dry (SSD). Remove the excess free water.
- For additional information, it is advisable to refer to the technical document ACI RAP Bulletin 4.
- Never mix less than one bag

### MIXING

- WEAR IMPERVIOUS GLOVES, such as nitrile when handling product.
- Using a concrete mixer or industrial drill is recommended to mix Target Flowcrete FS SCC.
- In a concrete mixer, or clean container, add 80% to 90% of the required amount of water per bag. Adjust the amount of water to obtain the desired consistency (slump flow). Never exceed 2.31 liters of water per 25 kg bag.
- Mixed for a minimum of 2 minutes, never exceed 5 minutes of mixing.
- The mixing time may vary depending on the type of mixing energy as well as the temperature.
- For best results, it is recommended to use the mixed product in the first 30 minutes after the water-binder contact.
- Never add water after initial mixing.

### PLACING

The forms must be waterproof and designed to resist the hydrostatic pressures. TARGET FLOWCRETE FS SCC could be placed by gravity without vibration. A concrete pump can be used for placement. The placement should be performed at an ambient temperature between 5 °C (40 °F) and 30 °C (86 °F).

### CURING

Proper curing increases mechanical strength and improves the durability of the Target Flowcrete FS SCC. Exposed concrete surfaces must be cured for a minimum of 7 days. It is recommended to use a wet burlap and plastic wrap on exposed surfaces.

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### CAUTION

- Never add admixtures or aggregates without the authorization of the manufacturer.
- Addition of excessive water.
- Contact your Target Products Ltd. representative. to know the specifications for concreting in cold weather and hot weather.

### PACKAGING

TARGET FLOWCRETE FS SCC is delivered in 25 kg (55 lb) bags of paper bags. It is also possible to obtain, on special order, synthetic Bag (Big Bag) that can support up to 1,100 kg (2,425 lb) capacity. Big Bag can be supplied with or without vent holes. Big Bags are supplied on pallets and can be covered with plastic sheets and stretch wrap for moisture protection.

### YIELD

Bags/m <sup>3</sup>	81
Bags/yd <sup>3</sup>	61
Liters/bag	12.4
ft <sup>3</sup> /bag	0.44

Product performance is affected by many factors, including storage, application method and conditions, and use. User testing is essential to determine the ability of the product to perform according to the method of application and intended use. No verbal or written information can improve this guarantee and/or replace this guarantee. We will replace the product found to be defective. We cannot be held liable for consequential, indirect or other damages arising from negligence or other circumstances.

**NOTICE:** Obtain the applicable **LIMITED WARRANTY** at [www.targetproducts.com/product-warranty](http://www.targetproducts.com/product-warranty). Or send a written request to Target Products Ltd., Five Concourse Parkway, Atlanta, GA 30328, USA. © Quikrete Canada Holdings, Limited. Manufactured by Target Products Ltd. ©2026 Quikrete International, Inc.

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