



# Multicrete® ALLOYCRETE SCF-12H

## Abrasion-Resistant Dry Shotcrete

### Technical Data Sheet

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#### Product Description

Multicrete Alloycrete® is an industrial abrasion resistant dry shotcrete enhanced with high dosage of Dramix Steel Fiber and a special blend of abrasion resistant aggregate. Steel fibers provide integral reinforcement and improve the products Impact Resistance, while the abrasion resistant aggregates create superior wear-resistance.

#### Advantages

- Spray on application using dry Shotcrete equipment
- Superior toughness when compared to conventional shotcrete
- Greatly improved impact resistance and abrasion resistance
- No Cold Joints

#### Usage

Multicrete Alloycrete® is recommended for high-wearing industrial surfaces which are subject to severe abrasion, impact, and continuous wear. Alloycrete® is ideally applied for ore passes, waste rock passes and crusher chutes.

#### Application

Apply Alloycrete® Shotcrete in accordance with the ACI 506 "Guide to Shotcrete" publication.

#### Curing

Optimal curing conditions are beneficial for Alloycrete®. Underground environments are often humid, which aids in curing of cementitious materials. Additional curing methods may be utilized. Refer to ACI 308 "Guide to Curing Concrete."

#### Yield, Packaging and Concrete Shelf Life

- Multicrete Alloycrete® is available in 1680 kg bulk bags that, when mixed with water; will produce one cubic yard of concrete.
- These bulk bags are capped and wrapped in durable poly plastics to prevent water from entering these bags when stored outside.
- Additional protection (covering with tarps or placed into a structure) from the elements may be required if bags are to be left outside for longer periods of time.
- If protected from the elements, bagged materials should be used up within one calendar year. If more time has passed, a couple simple tests can determine whether this older material is good for use.
- Custom packaging between 500 kg and 2200 kg is also available. Please contact Multicrete to discuss your packaging needs.

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TEST	METHOD	RESULTS
Compressive Strengths:	<b>CAN3-A23-14C</b> <b>ASTM C42</b>	<b>MPA (PSI)</b>
7 Days		47 (6816)
14 Days		50 (7251)
28 Days		58 (8412)
Flexural Strengths:	<b>ASTM 1018</b>	7.1 (1029)
Boiled Absorption:	<b>ASTM C842</b>	5.8 %
Volume of Permeable Voids:	<b>ASTM C842</b>	13.0 %
Flexural Toughness:	<b>7 Days Flexural Toughness</b> <b>ASTM C1550-12a</b> <b>(Round Determinate Panel Test)</b>	540 Joules

#### Safety Precautions

Multicrete Alloycrete® contains Portland cement and other carefully selected additives. Normal safety wear such as rubber gloves, respirators and safety glasses used to handle conventional cement-based products should be worn. Safety Data Sheets (SDS) are available on request.

Note - The performance of shotcrete relies heavily upon application techniques. To determine the quality of shotcrete, material equipment and personnel should all be pre-qualified prior to project and application start up.

Technical Data shown are values achieved using proper shotcrete applications and techniques outlined in the ACI 506 publication. Data achieved is obtained in-house by Multicrete Shotcrete professionals.

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