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FLASH-SET SHOTCRETE

For Applications Requiring Rapid Set Times

Description

"Flash-Set" Shotcrete is a preblended, dry shotcrete based on a modified hydraulic cement for a **very rapid set**. "Flash-Set" Shotcrete also has greatly enhanced shooting characteristics and physical properties due to specially selected admixtures.

Caution

"Flash-Set" Shotcrete is not intended for use as a structural support lining. Its unique properties make it ideal as a sealing coat to enable additional shotcrete to be applied.

Uses

"Flash-Set" Shotcrete is designed to be used with the Dry Process. It was specifically developed for the following applications:

- Sealing a raveling surface.
- Spraying onto wet areas to contain and direct the water flow.
- Providing "instant" temporary support in wet or unconsolidated ground.

"Flash-Set" Shotcrete may be used in combination with steel fibre reinforcement to enhance load carrying capacity. It can be blended to meet ACI 506 gradation #1 or 2.

Advantages

- ♦ Instant Set: "Flash-Set" Shotcrete sets within moments of application to create a sealing membrane and provide limited immediate support.
- ♦ Stickiness. "Flash-Set" Shotcrete has vastly improved cohesion characteristics compared to conventional shotcrete. Rebound is significantly reduced, resulting in lower material usage.
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 - Sagging and sloughing are eliminated.
- ♦ Physical properties: Silica fume in "Flash-Set" Shotcrete creates a higher strength shotcrete with low permeability and excellent freeze/thaw durability.
- ♦ Resistance to water washout: "Flash-Set" Shotcrete in the plastic state has tremendous resistance to washout by flowing water. This allows it to be applied to moderately wet surfaces.

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Technical Data

TEST METHOD	RESULTS
Compressive Strengths:	CAN3-A23-14C Mpa (PSI) ASTM C42
48-hour	33 (4757)
14-day:	54 (7775)
28-day:	58 (8363)
Boiled Absorption: ASTM C842	5.0 percent
Volume of Permeable Voids: ASTM C842	14.0 percent
Rebound:	Consultant's Test
Vertical	8%
Overhead	<20%

Safety Precautions

"Flash-Set" Shotcrete contains hydraulic cement. Use same safety wear as for conventional cement products. See MSDS Information for additional guidance.