

FONDU CEMENT[™] 100

ALUMINA CONCRETE TOPPING FOR SPECIAL APPLICATION

DESCRIPTION

Fondu Cement™ 100 is made of special cement based on calcium aluminates instead of Portland Cement. Fondu Cement™ 100 will not release free lime during hydration whilst Portland Cement releases up to 30% free lime, so it has an excellent resistance to chemical attack, abrasion and wear.

RECOMMENDED USES

- Ante Room, Air Lock, Cold Room, Freeze Room
- Floor Area of unloading hot steel
- Workshop, Maintenance shop
- Irrigation Water Gate structure topping
- Dam Spillways
- Chemical Warehouses
- Loading Decks
- Road and Bridge repairs

MAIN PROPERTIES

- Resist low temperatures down to minus 40 °C
- Resist high temperatures up to 500 °C
- Withstand freeze thaw temperatures (-40 °C + 40 °C) in 8 hours
- Resist to abrasion, high water pressure, mechanical friction
- Resist to light chemicals (pH 4 to pH 12)
- High early strength, 240 KSC (cyl) in 6 hours
- Quick hydration, moisture content at 3 days is less than 5% by weight, can apply resin based coating i.e. paint, epoxy, polyurethane

TECHNICAL PROPERTIES

*Compressive Strength 6 hours 24 hours 3 days Flexural Strength Tensile Strength Initial Setting Time Final Setting Time Specific Gravity *Abrasion Resistance Heat of Hydration 6 hours 24 hours 5 days	240 KSC (cyl) 300 KSC (cyl) 350 KSC (cyl) N/A N/A 40 minutes 192 minutes 2.4 kg/L N/A 340 kJ/kg 445 kJ/kg
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COLOR Natural Cement Gray

SHORT SPECIFICATION

High Alumina 40 percent Fondu Cement™ 100 from France



MIXING AND INSTALLATION

Temperature of room and substrate should be above 10 $^{\circ}$ C for application of Fondu concrete. Mix the following constituents with concrete mixer for 5 minutes.

 Fondu cementTM 100 	50 kg (2 ba
● Sand	98 kg
Aggregates 3/4"	138 kg
Water	18 Liters
 Concrete additive retarder 	80 -150 cc
 Concrete additive foaming agent 	50 cc
 Concrete additive superplasticizer 	0.150 kg.
(Only if in working temperature is below 0 d	legree C) Pour

(Only if in working temperature is below 0 degree C) Pour thmix onto the floor surface and use power trowel to compact and smooth steel finish.

TRAFFICABILITY

24 hours	Light traffic
48 hours	Normal traffic, moisture content will be less 5% by weight
	and painting is possible.

AVERAGE CONSUMPTION

- 24 kg concrete mix per cm/m2 or
- 1.81 m²/mix at 7 cm thick.

PACKAGING

25 kg/bag 56 bags/pallet

CAUTION

- Never mix Fondu Cement[™] 100 with portland cement, it will accelerate the setting time.
- Never add up water after the mixing process completed, control water cement ratio not exceeding 0.4

STORAGE AND SHELF LIFE

1 year

HEALTH & SAFETY

Material Safety Data Sheet (MSDS) available upon request.

Technology for Engineers

PRODUCT Plants

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