



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROROC HC (F)

General Purpose, Non Shrink High Strength Fiber Reinforcement Cementitious Micro Concrete

Description

AEROROC HC (F) is a ready to use product in grey powder form, which requires only the on-site addition of water to produce a high strength, non-shrink micro concrete of predictable performance.

The material is based on Portland cement, graded aggregates, fillers and additives which impart controlled expansion characteristics in the plastic stage while minimising water demand. The low water requirement ensures high early strength and long-term durability. For larger repairs, mixed **AEROROC HC (F)** can be modified by the addition of 10 mm clean, graded, saturated, surface dry aggregates at site.

Uses

- Gas or steam turbines
- Generators
- Presses
- Crane rails
- Milling machines
- Precast elements
- Anchor bolts
- Repair and reprofiling of bored piles

Advantages

- Shrinkage compensated.
- Formulated for deep section grouting.
- Prepacked factory controlled to overcome site batched variations
- Proven and predictable performance.
- Excellent workability retention even at high ambient temperatures.
- High bond strength to steel and concrete.
- Early strength development even at fluid consistency.
- Good fatigue and impact resistance.

Instruction for use

Surface Preparation

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds, etc.

Typical Properties & Specifications:

The following results were obtained at a water : Powder ratio of 0.18 @ 30°C.

		Test Typical result at 30°C			
		Compressive strength (kg/cm ²)			
		(Tested on 70.7mm cubes as per BS 4551-80)			
		1Day	3D	7D	28D
		150	350	425	550
1	Tensile strength	2.0N/mm ² @ 28 days			
2	Wet Density	2100 kg/m ³			
3	Flexural strength	5N/mm ² @ 28 days (BS4551 - 80)			
4	Young's Modulus	25 kN/mm ²			
5	Expansion characteristics (ASTM C 827-1987)	Unrestrained expansion 1 to 4%.			

Soak area to be grouted with water for 24 hours prior to grouting to minimise localized absorption and to assist in the free flow of the grout. Surfaces should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Base plates, bolts, etc. must be clean and free of oil, grease, paint, residual curing compound or other contaminants that could impair adhesion. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease.

Mixing & Placing

Care should be taken to ensure that AEROROC HC (F) is thoroughly mixed in suitably sized vessel with a torque (400-500 RPM) rotary drill fitted with a mixing paddle. The addition of graded aggregate where specified should be added after the water and AEROROC HC (F) should be properly mixed.

Placing

The mixed material should be placed immediately. If placed by pump, standard concrete pumping should be followed.



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Curing

Curing should start within 2 hours and minimum curing time should be same as that for concrete (7 days) as a cementitious material.

Low Temperature

In cold conditions down to 15 °C, the use of warm water (up to 30 °C) is advisable to accelerate strength development.

Cleaning

Tools may be cleaned with clean water.

Packing & Yield

AEROROC HC (F) is supplied in 25 kg HDPE bags. Approximately 13.0 litres per 25 kg bag. Actual yield per bag will depend on the consistency of AEROROC HC (F) and quantity of coarse aggregate added.

Shelf Life & Storage

AEROROC HC (F) has a shelf life of 6 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will

prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008.

Health & Safety

AEROROC HC (F) is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

OUR RANGE OF PRODUCTS



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