



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 07/2013

# TSIRCO-CEMGROUT HS

## Non-Shrink Grout

**Product:** TSIRCO-CEMGROUT HS is a single component, high strength pourable cementitious grout.

**Composition:** A blend of specially modified cements and aggregates free from corrosive substances.

**Uses:** A heavy-duty pourable grout for machine base bearing plates anchoring and all construction recesses.

**Consumption:** A 25kg pack of TSIRCO-CEMGROUT HS will yield approximately 11,4 litres of grout.

**Packaging:** 25kg three-ply paper sack.

**Expansion:** Two stage expansion to offset plastic shrinkage often associated with cement.

**Compressive Strength:** Over 50N/mm<sup>2</sup> at 28 days, 20°C.

**Bond Strength to concrete :** Over 3N/mm<sup>2</sup> at 28 days.

**Description:** TSIRCO-CEMGROUT HS is a pre-batched cementitious grout with maximum aggregate size of 5mm. It has excellent flow properties, high early strengths, and has slight expansion properties to ensure the placed grout will not shrink after placing.



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TSIRCO-CEMGROUT HS is a high strength grout, easy to use, requiring only the addition of clean water to provide the following properties:

- ❖ Good flow characteristics. Easy to apply.
- ❖ Rapid early strength development.
- ❖ Non-corrosive.
- ❖ High final strength.
- ❖ Adjustable consistency.
- ❖ Non-toxic.
- ❖ Resistant to water (waterproof), sulphates, chlorides and severe environment.
- ❖ High adhesion to steel reinforcement and concrete.
- ❖ No limitations as to the application thickness.

**Coverage:** Approximately 2.7 litres of clean water to be mixed with a 25kg bag of TSIRCO-CEMGROUT HS will give a fluid pourable grout of about 11,4lt. This consistency will stay pourable for about 25minutes at 20°C.

## Strength Gain:

At 20°C	Compressive Strength N/mm <sup>2</sup>
24 hrs	> 30
7 days	> 40
28 days	> 50

At 20°C	Bending Strength N/mm <sup>2</sup>
24 hrs	> 7
7 days	>8
28 days	>10

## Technical Data:

Max. particle size: 5 mm

Pourable life : About 45 min. at 20°C

Setting time : About 5 hours at 20°C

Density : Appr. 2,2 kg/lt

Colour : Grey

Modulus of elasticity: At 28 days > 27 GPa



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**Where to use:**

TSIRCO-CEMGROUT HS is used for the following grouting locations:

- ❖ Machine foundations
- ❖ Columns in precast construction
- ❖ Concrete anchors
- ❖ Cavities, gaps and recesses
- ❖ Bearing plates e.t.c.

**Instructions for use:**

**1. Surface Preparation**

All concrete must be clean, sound and free from oil, grease and cement laitance. Substrate shall be thoroughly prewetted before application. All metal surfaces must be free from corrosive products.

**2. Mixing**

Add the premixed powder in water using mechanical slow speed stirrer until an even smooth consistency has been reached.

**3. Application**

Immediately after the mixing pour the mortar ensuring that air can be displaced and that a sufficient head of pressure is maintained to keep the mortar flowing. Thickness of application per layer is between 20 to 200mm.

**Important Hints:** Although TSIRCO-CEMGROUT HS can be used between 5°C-35°C, the used of warm water in cold conditions and cool water in hot conditions will assist the flow of the grout. It is essential that concrete surfaces are prewetted. At all times during the pouring of the grout maintain a light rod movement to increase flow.



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**How to Specify:** All cavities to be prepared and filled with TSIRCO-CEMGROUT HS strictly in accordance with the Technical data sheet from Tsircon Co Ltd.

