



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROGROUT GP 50

General purpose, non-shrink, free flow cementitious grout

Description

AEROGROUT GP 50 is a ready-mixed, non-shrink, nonmetallic, flowable, high-strength structural grout. AEROGROUT GP 50 contains a balanced blend of washed and graded silica sands, portland cement, flow improvement compounds, and a shrinkage compensating system which produces a volume stable structural grout. AEROGROUT GP 50 produces high early and ultimate strengths without intermediate or latent shrinkage. AEROGROUT GP 50 remains stable without failure from compressive loading, impact, lateral thrusts, high heat or continuous vibration. Plastic settlement and shrinkage are prevented by the shrinkage compensated mix design. Low mixing water demand results in the hardened grout giving good freeze-thaw stability, low water absorption plus resistance to oil, sea water and mild alkali attack. The grout is chloride free, can be safely used in contact with steel and can be placed in section thicknesses of 10mm up to 100mm.

Uses

AEROGROUT GP 50 is used where non-shrink, high strength, structural, durable grout is required such as: precise machine bases, pump and equipment bases, structural columns, machine tools, compressors, and anchor bolts.

Advantages

- Prepacked, In factory ensures consistency in supply requires addition of water to develop a free flow, non shrinking and high strength gaining grout.
- Material shrinkage is offset by expansion during green condition and later on by maintain original volume.
- Self leveling by nature.
- Easy placement and filling of underbosses of machinery.
- Non metallic and chloride free.

Instruction for use

Surface Preparation

Formwork should be erected and made grout-tight. The formwork must be designed with sufficient hydrostatic head to ensure grout flow into and across the grouting area. Saturate the grouting area with water, check for leaks, leave for 1 hour and then blow out any surplus water.

Mixing

Pour 4.75 litres of clean water into the mixing vessel for each complete bag of AEROGROUT GP 50. Slowly add the AEROGROUT GP 50 to the water whilst continually mixing. Mechanical mixing is preferable using either a high torque slow speed drill with a Grout Stirrer or a grout mixer set on a slow speed. (High speed or colloidal mixing will cause thixotropy leading to loss of flow).

Typical Properties & Specifications:

Compressive Strength (BS 1881 : Part 116,1983 & ASTM C 1107) @ w/p ratio 0.19 (flowable) Note : Cubes cast were kept under resistant before testing to simulate site condition. Size of the cubes used 70.6mm x 70.6mm x 70.6mm tested at 300C.

Sr.No	Properties	Specification
1	Chloride content	Nil as per BS:5075
	AGE IN DAYS	COMPRESSIVE STRENGTH IN N/mm ²
	1	15 N/mm ²
	3	25 N/mm ²
	7	32 N/mm ²
	28	48 N/mm ²
2	Unrestrained expansion	1 to 4%
3	Consistency Life	20 minutes @ 30 C
4	Density	2100 kg/m
5	Initial Setting Time	Approx. 5 hrs.
6	Flow on Flow Table	17 to 24 cms.

Placing

Grout should be placed within 20 minutes after start of mixing. Continuous placing is important, pouring from one side of the formwork until the grout appears at the opposite side of the grouting area.

Do not disturb once grouting has been completed. GP Grout may be placed at temperatures between 5°C and 45°C. AEROGROUT GP 50 can be placed in thicknesses up to 100mm in a single pour when used as an under plate grout. For thicker sections it is necessary to fill out AEROGROUT GP 50 grout with well graded silt free aggregate to minimize heat buildup. Typically a 10mm aggregate is suitable. 50 - 100% aggregate weight of AEROGROUT GP 50 can be added. Any bolt pockets must be grouted prior to grouting between the substrate and the base plate.

Curing

Placed grout which is exposed should be cured in accordance with good concrete practice including water spray and spray applied curing membrane.



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Tools Cleaning

Tools and equipment can be easily cleaned with a clean water.

Packing

AEROGROUT GP 50 grout is supplied in 25 kg single lined HDPE bags.

Yield

One bag (25 kg.) of AEROGROUT GP 50 will yield 13.7 litres at flowable consistency.

Shelf Life & Storage

AEROGROUT GP 50 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 certified.

Health & Safety

AEROGROUT GP 50 is alkaline when mixed with water and should not come into contact with skin or eyes. 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 is given in Product Safety Data Sheet.

OUR RANGE OF PRODUCTS



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