



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROGROUT GP 65

General purpose, non-shrink, high strength free flow cementitious grout

Description

AEROGROUT GP 65 is a premixed cement based, nonferrous, non-shrink grout, exhibiting good flow characteristics. This economical performance grout offers the advantage of low water requirements and medium to high compressive strengths. AEROGROUT GP 65 should be specified for general purpose construction site applications where the major emphasis is on ease of application. AEROGROUT GP 65 is supplied ready-to-use as a dry powdered product requiring only the addition of water to be used for a wide range of applications. AEROGROUT GP 65 produces high early and ultimate strengths without intermediate or latent shrinkage. AEROGROUT GP 65 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 65 is used for precision grouting where it is essential to withstand static and dynamic loads. Typical applications would be the grouting of base plates of turbines, compressors, boiler feed pumps etc., It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fence posts.

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 under base of machinery.
- Contains no chlorides, or corrosive ingredients.
- Similar appearance to concrete.

Instruction for use

Surface Preparation

Correct and thorough surface preparation is essential to achieve the high performance qualities of AEROGROUT GP 65. All surfaces must be clean, sound and free from dust, ice, oils, grease and other surface contaminants such as curing membranes and form release agents etc. Bolt holes and fixing pockets should be free of dirt and debris by air blasting. For maximum bond, surfaces should be abraded or roughened, preferably by mechanical means such as needle gun, grit blasting, grinding etc.

Typical Properties & Specifications:

Compressive Strength (BS 1881 : Part 116,1983 & ASTM C 1107) @ w/p ratio 0.18 (flowable), w/p ratio 0.16 (Pourable).

Sr.No	Properties	Specification	
1	AGE IN DAYS	COMPRESSIVE STRENGTH IN N/mm ²	
		Flowable w/p = 0.18	Pourable w/p = 0.16
2	1	24 N/mm ²	27 N/mm ²
	3	40 N/mm ²	50 N/mm ²
	7	55 N/mm ²	65 N/mm ²
	28	65 N/mm ²	75 N/mm ²

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.

Flexural Strength (BS 4551, 1998)

	AGE IN DAYS	FLEXURAL STRENGTH IN N/mm ²
3	1	2.5 N/mm ²
	3	7 N/mm ²
	7	9 N/mm ²
	28	10 N/mm ²
4	Unrestrained expansion	1 to 4%
5	Consistency Life	20 minutes @ 30 C
6	Density	2000 kg/m ³
7	Initial Setting Time	Approx. 5 hrs.
8	Flow on Flow Table	17 to 24 cms.

All prepared surfaces must be saturated with water several hours prior to grouting, ensuring it is free of any surface water or puddles.

Formwork

The formwork used must be leak proof to allow for the free flowing AEROGROUT GP 65. The formwork should be arranged so that the grout head is maintained on the side above the level of the underside of the base plate. This will allow gravity flow to completely fill the void to be grouted. Formwork should be coated with form oil to allow easy removal of forms. Ensured adequate air holes are provided.

Mixing

Pour 4 litres of clean water into the mixing vessel for each complete bag of AEROGROUT GP 65. Slowly add the AEROGROUT GP 65 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).



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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 65 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 65 grout with well graded silt free aggregate to minimize heat buildup. Typically a 10mm aggregate is suitable. 50 - 100% aggregate weight of AEROGROUT GP 65 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.

Tools Cleaning

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

Packing

AEROGROUT GP 65 grout is supplied in 25 kg single lined HDPE bags.

Yield

One bag (25 kg.) of AEROGROUT GP 65 will yield 12.5 litres at pourable consistency & 13.3 litres at flowable consistency.

Shelf Life & Storage

AEROGROUT GP 65 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 65 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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