



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AERO LEVELEX 100

Polymer modified cementitious self leveling compound

Description

AERO LEVELEX 100 is a ready-mixed, fast drying, high performance, polymer reinforced, self leveling floor compound. It is supplied as a dry, grey powder which requires only the addition of water to produce a self-smoothing, free flowing material. It may be applied either by hand, or via the use of a continuous mixer pump.

Uses

AERO LEVELEX 100 provides smooth, leveled, monolithic substrate ready for the application of floor tile, linoleum, sheet vinyl, carpet, wood parquet or other floor coverings without troweling. AERO LEVELEX 100 is suitable for use in Industrial ware houses, factories, & suitable for use in schools and hospitals, commercial buildings, up grading and refurbishing of existing internal concrete slabs. It can also be suitable for use in car parking and light to medium engineering operations.

Advantages

- Excellent final grip.
- Excellent self leveling properties.
- Extremely fast setting.
- Rapid early strength gain.
- Fluid easy to place consistency.
- Compatible with most tile and carpet adhesives.
- More cost effective than equivalent resin based systems.
- High abrasion resistance.
- Vapor permeable.

Instruction For Use

Surface Preparation

- New concrete floors should be at least 28 days old, prior to the application of AERO LEVELEX 100.
- The substrate on to which the AERO LEVELEX 100 is to be applied must be generally clean, sound and free from oil, grease and other contaminants.
- The substrate should have either a compressive strength of 25 N/mm² or a surface tensile strength in excess of 1.25 N/mm² and a relative humidity not exceeding 75% at the time of installation. Cracks and holes should be repaired with CRACKPACK.

Priming

The substrate should be primed in order to prevent air release and to provide a bond for the AERO LEVELEX 100. Priming is achieved by coating the floor with a AEROBOND SBR 20. If, after treatment an even sheen is not evident on the floor an additional application of primer should be made.

Application

Mixing

Only full bag mixing is permissible. Do not part mix, or add further water to the mixed material in order to prolong workability. Either of these actions will result in incorrect water: powder ratio, and will compromise the final material performance. It is essential that AERO LEVELEX 100 is

Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Fresh wet density	2100 kg/m ²
2	Minimum application temperature	5 °C
3	Maximum application temperature	30 °C
4	Self-leveling working time @ 30 °C	20-25 minutes
5	Open time / workability @ 30 °C	30 minutes
6	Minimum application thickness	6 mm
7	Maximum application thickness	15 mm
8	Set to foot traffic @ 30 °C	6 hrs.
9	Set to receive floor covers @ 30 °C	24 hrs.
10	Water/powder ratio	0.18
11	Compressive Strength 1 day	12 N/mm ²
12	Compressive Strength 7 days	25 N/mm ²
13	Compressive Strength 1 day	38 N/mm ²

thoroughly mixed and that the temperature of the mixed material should not be allowed to exceed 30°C. Measure out 3.6 litres of cool, potable water, into a suitably sized mixing vessel and mixing a full bag (20 kg.) of AERO LEVELEX 100. It is suggested that the temperature of the water should not exceed 20°C so that the temperature of the final mixed mortar is not greater than 30°C. Always add the powder to the water. Mix for 3 to 5 minutes until fully homogenous, using a 1 KW, slow speed drill (400 to 500 rpm)

Application

Pour the mixed material on to the dry, primed surface, spread with a trowel and allow to 'self-level'. Roll the surface with a spiked roller to promote the release of any trapped air. Best results are achieved when the pouring and leveling is a continuous process.

Expansion joints

Expansion joints in the existing substrate must be retained and continued through the AERO LEVELEX 100. AERO CONCHEM have a range of joint sealants specifically designed for flooring, consult your local TECHCON CHEMICALS office for more details.



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Cleaning

Tools and equipment should be cleaned immediately by flushing with water. Cured material can only be removed by mechanical means.

Hot weather working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice :

- Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- Try to avoid application during the hottest times of the day.
- Make sufficient material, plant and labour available to ensure that application is a continuous process.
- Use cool water for mixing and also to soak the surface prior to the application of primer.

Curing

Curing is not required.

Packing & Coverage

AERO LEVELEX 100 is available in 20 kg Woven bag. Coverage will be 2 kg/m² at 1mm thickness.

Note : Coverage figures are theoretical - due to wastage factors and the variety and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions.

OUR RANGE OF PRODUCTS



Shelf Life & Storage

AERO LEVELEX 100 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

AERO LEVELEX 100 should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. Should AERO LEVELEX 100 come into contact with skin, remove before hardening by washing with soap and water. Should accidental eye contact occur wash with plenty of water and seek medical advice. If swallowed seek medical advice immediately. Do not induce vomiting. For full health and safety data refer to Product Safety Data Sheet.

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