

PC Cem Screed



Fiber reinforced ready mix screed

Product Overview

PC Cem Screed is a ready to mix cementitious screed made with selected aggregates additives and fiber. It has to be simply mixed with water on site. It can be used prior to the installation of other products.

Areas of applications

PC Cem Screed is particularly recommended for residential/housing floor screed, hospitals, industrial areas, warehouses, commercial spaces floor screeds, parking lots, auditoriums floor screed, etc.

Properties

1. PC Cem Screed has excellent mechanical resistance and wear resistance too
2. It is a eco friendly and durable.
3. It has low shrinkage..
4. It has excellent adhesion properties to all types of substrates.
5. It has good resistance to chemical attack ultraviolet lights and saline solutions.

Guidelines for Usage

1. Surface Preparation: In case of bonded screed, the substrate should be at least 3 months old (residual moisture <4%) and structurally stable. Remove all grease, oil, dirt, laitance and foreign particles from the joint profile that could hamper proper adhesion. Laitance, moulds and contaminants could be removed by mechanical means such as high

speed water jet, grit blast or wire brush. The prepared surface must have an average surface tensile adhesion strength > 1MPa. The substrate must then be vacuumed and primed using a suitable primer. Soft strips have to be fixed as a separation between walls/columns and the screed before proceeding with the application.

2. Primer application: The Primer must be brushed into the substrate using soft brush. The ponding/puddling of the primer should be avoided. Apply 2 coats if necessary. For dry and porous substrate, apply the dilute first coat of the primer with water in the ratio of 1:5. Allow the 1st layer to dry completely (i.e. the colour of the primer changes from white to clear) before applying the second coat with dilution 1:3. For dense concrete, apply a single coat of primer with dilution ratio of 1:3.

3. In case of unbonded/floating screed: Start by fixing soft strips (5mm - 10mm thickness) as a separation between the walls /columns and the screed. Lay down thick polyethylene sheets (200 micron to 250 microns) on the substrate. Make sure that the overlap of 30 cm should be maintained between two wraps. Make sure that the polyethylene sheets cove the vertical edges as well as the corners of the screed for about 20 cm. Lay a 10mm alkali resistant fibre mesh overlapped for around 30cm or 100mm X 100mm galvanized steel mesh. The mesh should be fixed in such a way that it can persist the floating on around 1/3rd of the layer thickness.

4. Mixing: Mix and use complete unit at a time. Don't subdivide. Mix the entire contents of a 25 kg bag in 2.5 - 3 kg water for 5 minutes using a medium speed mixing paddle until a uniform consistency is achieved. The sides and base of mixing container should be scrapped and mixed properly to obtain the best results.

5. Application: The mixed PC Cem Screed should be poured over the substrate and spread using a steel trowel for a thickness upto 50mm. Control joints in the existing substrate should be considered. For large areas, limit the work areas along with the joints should be created for every 25m². Spread the material using a large trowel to aid in levelling of the surface. In case of floating application, a minimum thickness of the screed should be maintained. Always maintain the edges wet for easy bonding with the adjacent fresh substrates. Protect the material from direct wind and sunlight during and after installation. PC Cem Screed can be cured easily within 7 days (3 - 5 times per day). Wait for 3- 8 weeks before applying an overlayment. For further queries, kindly contact the Mcrete[®] Technical representative.

Coverage

PC Cem Screed gives a coverage of 22kg/m² when laid at a thickness of 10mm.

Dosage and measures

PC Cem Screed comes in a pre weighed packings. It is ready to mix and apply. Please contact a Mcrete[®] technical representative for further advice.

Packings available

PC Cem Screed is available 25 kg bags.

Storage and Shelf life

PC Cem Screed has 12 months shelf life when stored in original, cool, dry and unopened packs.

Safety Measures

1. When mixed with water, PC Cem Screed releases alkalis that are harmful to skin. So it is advised to perform application in a well ventilated area.
2. Use proper safety equipments while mixing e.g. use of safety coats, safety goggle, gloves etc. Any eye contamination should be washed immediately with clean water and immediate medical attention sought.
3. Any masking tape which has been applied should be removed during the application before the sealant cures.

For further information related to application and safety precautions, please contact Mcrete[®] technical representative.

Technical data

Aspect	Grey colored coarse aggregate powder
Grain size	< 5mm
Flexural Strength (ASTM C 580-02)	9 MPa @ 28 days
Compressive strength (ASTM C 109-02)	28 MPa @ 7 days

For further clarifications Please contact on below address

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