



CONSOLCRETE FLOOR LEVEL

High Performance Cementitious Mortar with Micro Silica, Micro and Macro Fibre

DESCRIPTION

CONSOLCRETE FLOOR LEVEL is a high performance cementitious mortar with an additional special blend of micro silica, micro and macro fibres.

RECOMMENDED FOR

CONSOLCRETE FLOOR LEVEL is used for surface levelling of new floor of floor renovation, at high rise building, mall, exhibition hall, auditorium, etc.

BENEFITS

CONSOLCRETE FLOOR LEVEL provides the following properties of benefit such as:

- Material added with micro silica fume
- Flowing micro-concrete
- Good flow characteristics
- Easy to use, ready to mix powder
- Easy to mix, only add water
- High compressive strength
- Resistant to impact and vibration
- Non toxic and non chloride
- Non corrosive

PRODUCT DATA

Form
Powder

Colour
Grey

Packaging

CONSOLCRETE FLOOR LEVEL : 25 kg
Can be added with Aggregate (5-10 mm) : 20% - 60% (5 kg - 15 kg) by powder weight (25 kg)

Mixing Density

~2.3 kg/L (3.25 L water per 25 kg bag)

Mixing Ratio

3.25 L per 25 kg bag
(water per powder = 13% by weight)

Pot Life 30°C

60 minutes

Shelf Life

9 months when unopened

Storage

Dry, cool, shaded place

Product temperature

< 30°C

Ambient air temperature

10°C - 35°C

Substrate temperature

10°C - 35°C

TECHNICAL DATA

Chemical Base

Cement, selected fillers and aggregates, micro silica, special micro and macro fibres, additives

Flexural Strength

(ASTM C-348)

28 Days

≥ 65 kg/cm²

Compressive Strength

(ASTM C-109)

1 Day

~ 270 kg/cm²

3 Days

~ 400 kg/cm²

7 Days

~ 520 kg/cm²

28 Days

~ 650 kg/cm²

Bond Strength

28 Days

> 1.5 N/mm²

Concrete failure, over roughened concrete surface

28 Days

> 1.5 N/mm²

Over mechanically roughened old surface



INSTRUCTION FOR USE

Surface Treatment

Prepare surface area by cleaning. Remove oil, grease and other bond-inhibiting materials.

The surface of the concrete must be hard and targeted to get good adhesion. Before applying, surface must be wetted to saturated surface dry.

Mixing

Mix **CONSOLCRETE FLOOR LEVEL** with water, 25 kg for 3.25 liters of water. Mix continuously for 3 minutes (minimum). Use a mixing paddle or appropriately sized mortar mixer. Use a mechanically low speed drill (400 - 600 rpm).

Note : **CONSOLCRETE FLOOR LEVEL** can be mixed with Aggregate (5-10 mm): 20% - 60% (5 kg - 15 kg) by powder weight (25 kg).

Application

Apply **CONSOL 82 LP** (as a bonding agent) with notched trowel, approx. 0.5-1.0 kg/m² (depend on the surface condition). Place **CONSOLCRETE FLOOR LEVEL** while **CONSOL 82 LP** is still tacky.

Pour **CONSOLCRETE FLOOR LEVEL** after mixing to the repair area. Best to use trowel with desire result. For additional technical information of **CONSOLCRETE FLOOR LEVEL** contact the Technical Services.

CURING

Wet cure for a minimum 3 days with wet hessian, plastic sheet or apply a curing compound.

LIMITATION

Minimum applications thickness: 20 mm.

Recommended thickness in one pour is 20 mm to 100 mm.

If the application thickness exceeds 100 mm, special procedure must be taken to anticipate temperature rise. Iced water, add coarse aggregate to the mix, or both of them may used to eliminate temperature rise.

The product can be applied in sections generally up to 500 mm (mixed with Aggregate (5-10 mm)).

Keep the materials and substrate temperature lower than 30 °C.

Variations in cement could cause shade differences in colour of the mortar.

In the case of addition with coarse aggregate, it is advised to conduct trial mix to check influence of coarse aggregate addition on mortar workability and strength. 5 to 10 mm size aggregate is found to be the most suitable size for this addition.

Don't use for patch repair.

Please contact our Technical Service for suitable application.

CLEANING TOOLS

Clean all tools and application equipment with water immediately after use. Cured material/hardened can only be mechanically removed.

HANDLING PRECAUTIONS

- Avoid contact with skin and eyes
- Wear protective gloves and eye protection during work
- If skin contact occurs, wash skin thoroughly
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.