

# STRATUM LVLcrete

Pre-mixed cement-based floor screed

## DESCRIPTION

**STRATUM LVLcrete** is a pre-mixed and bagged blend of cements, aggregate & special polymers to give a high quality, cementitious floor screed with excellent workability and finish characteristics, **STRATUM LVLcrete** is easy to use, requiring only the addition of clean water to give a consistent durable screed, with an application thickness of 30-100 mm.

## USAGES

- Levelling of concrete slabs prior to application of final floor covering
- Screeding over hollow-core pre-cast concrete slabs
- Levelling floor and slabs to slope ensuring proper flow to drains

## STANDARDS

**STRATUM LVLcrete** is formulated to comply with all requirements;

- EN197:2011
- EN1636:2013
- EN13813:2002
- BS8204:2010

## TECHNICAL DATA

STRATUM LVLcrete	Typical values
Mixed Appearance	Grey powder
Compressive Strength	≥16 N/mm <sup>2</sup>
Flexural Strength	≥ 1 N/mm <sup>2</sup>
Grain Size	≤ 2 mm
Pot life	30 min
Dry Density	1.5 kg/l
Wet Density	2 kg/l
Application Temp.	5°C - 35°C
Filler material	Graded silica sand
Screed type	C16-F1

## ADVANTAGES

- Factory controlled pre-blend ensures consistent high quality
- Suitable for middle east harsh weather conditions
- Easy application enabling high productivity & superior finishing
- High bond to substrate
- Excellent physical and mechanical properties
- Shrinkage compensated
- Excellent workability

## USAGE INSTRUCTIONS

### 1. Surface preparation

Long term durability and function can only be achieved with good preparation to give a strong adhesion & mechanical bond to the substrate.

Prepare concrete surfaces preferably by mechanical methods to remove laitance, curing compounds and other loose materials to provide a mechanical key for **STRATUM LVLcrete**.

### 2. Priming

Thoroughly soak concrete substrate with clean water for at least 1-2 hours, removing standing and excess water prior to priming with **ENEBOND SBR**.

Apply a bonding coat comprising 3 parts water and 1-part **ENEBOND SBR** to the pre-soaked concrete surface. Apply the **STRATUM LVLcrete** wet on wet to the bonding coat 15 minutes right after applying the bond.

If the substrate cannot be pre-soaked with water, we recommend priming with **PIOPRIME 38** instead of **ENEBOND SBR**.

### STRATUM LVLcrete

Water/ 50kg bag

Yield

Consumption/ 50kg bag

### Coverage

7 – 9.5 liters

53 – 56 liters

0.65m<sup>2</sup>/4cm

### 3. Mixing

Add 50 kg bag of **STRATUM LVLcrete** to 9-9.5 liters of drinking quality water and place in a suitable empty container with a sufficient volume to accommodate the mixed material, or 7-7.5 liters to achieve semi dry screed. Slowly add the powder to the water and mix continuously for 4-5 minutes using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved.

### 4. Application

Pour the mixed **STRATUM LVLcrete** onto the prepared surface. Spread out and tamp or compact using a plastic or wood float to provide a dense topping to achieve the required thickness.

#### Hardening Time

Before foot traffic	24 hours
Before light traffic	3 days
Before common traffic	28 days

#### Thickness

Type	Minimum $\delta$	Recommended	Maximum
Bonded	30 mm	40 mm	60 mm
Unbonded	50 mm	70 mm	90 mm
floating	65 mm	80 mm	100 mm

Finish with a plastic float, wood float or steel trowel depending on the surface texture required.

If required, subsequent layers can be applied to the first after 24 hours. The first layer should be scratched-finish to provide a mechanical key to next layer.

### 5. Curing

**STRATUM LVLcrete** is a cement-based material, that should be cured properly by spraying water for 3 days.

Using **ENECURE WB** curing compound is recommended.

## PACKAGING

**STRATUM LVLcrete** is supplied in 50 kg bags.

## HEALTH & SAFETY

Is non-toxic and non-hazardous, if material comes in contact with skin, cleaning with water and soap is recommended.

## STORAGE & SHELF LIFE

**STRATUM LVLcrete** shall be stored in normal conditions away from extreme temperatures, and any source of moisture. Shelf – life is 12-months.

### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
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