

### MONNELI BETOLITE\*

*Light Weight Screed*

#### Product Description

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A pre-blended cementitious underlayment lightweight screed which is ideal for several applications including, leveling rough floors, for applying drainage falls in wet area floors, casting decorative profiles, etc.

A premixed screed composed of cement, silica, natural lightweight filler and chemical additives.

#### Uses

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BETOLITE\* can be used on both internal and external foot trafficked floors areas, in domestic and residential scenarios, where conventionally, sand and cement screeds have been used prior to the installation of ceramic tiles.

It is ideal for use in both dry and wet areas such as verandas, balconies, laundries, toilets, bathrooms and shower recess areas.

BETOLITE\* can be used to produce light weight decorative profiles for evaluations. It can also be used to create rain fall slopes on roof prior to waterproofing membrane.

BETOLITE\* is suitable for use over the following:

- Concrete floors
- Fiber cement sheeting
- Most waterproofing membranes
- Timber floors lined with plastic sheeting
- Brick and block work

#### Advantages

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- Almost half the weight of normal sand/cement mixes making it easy to move on site, in particular where it needs to be transported up multi-storey buildings. This also makes it ideal for areas where weight restrictions apply

- Being premixed, it eliminates the need for time consuming, messy and inaccurate site mixing of sand and cement
- Economical, saves time and money, requires only mixing with water
- Reduces noise and heat transmission
- Eco-friendly

#### Instructions for Use

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##### Surface Preparation

All surfaces must be structurally sound, dry, clean and free from movement, laitance, oil, grease, wax, curing compounds, release agents and any other loose or contaminating materials.

Any gaps/voids in the substrates where structural movement will occur require a suitable expansion joint.

Where the screed is to be applied to the substrates, saturate the concrete surface with water prior to screed application. Surface should be damped (with no free water) in order to avoid possible water absorption at the moment of casting.

Timber floors or other surfaces where the screed is unbonded must be lined with plastic sheeting.

##### Mixing

BETOLITE\* is a pre-blended screed that only requires the addition of water. Each 30 kg of BETOLITE\* powder requires 7.5 to 8.0 Liter of water.

Always ensure that the powder is slowly added into the water using a high torque mechanical stirrer. For best results use a wide mouth shallow container. Always allow the mix to stand for 5 minutes and then re-stir before using.

## Application

Empty out the mixed BETOLITE\* screed onto the substrate. Spread the mixture using a flat steel or wooden float. Ensure that the thickness of the screed is not less than 30mm. Level the surface or adjust the falls in the screed using an appropriate steel or timber straight edge.

BETOLITE\* can be trafficked on after three days. Floor coverings and waterproofing membranes can be applied after 7 days of casting.

When applying the screed over tongue and groove timber floors or other surfaces where the screed is unbonded, it is recommended that BETOLITE\* is reinforced with expanded metal or galvanized wire mesh.

After the application, avoid rapid evaporation of water and cover the screed with polythene fixed over wet Hessian for 3 days.

## Cleaning

Clean tools and equipment with water. Hardened materials should be removed mechanically.

## Recommendations

- During summer season, working area should be covered to prevent direct sun effects
- Do not apply on surface that has temperature less than +5°C.
- Do not use in area of water immersion like inside swimming pools, or fountains.
- Do not add sand or cement on the BETOLITE\*. Any additions may affect the performance and density of the product.
- Do not apply BETOLITE\* over gaps or voids where structural movement will occur. These should be filled with a suitable expansion joint
- Do not use where negative hydrostatic pressure is evident (i.e. rising damp) as it will affect the bond of BETOLITE\* to the substrates
- For other uses or the use of BETOLITE\* over substrates/situations not mentioned in this technical brief, contact Colmef Technical Department

- For weak surfaces, it is recommended to apply one coat of cement slurry as a bonding layer before applying BETOLITE\* screed.

## Technical Data

Properties	Results
Appearance of mix	Grey granules powder
Dry bulk density	1.0 kg/L
Mix density	1.2 kg/L
Workable time at 25°C	60 minutes
Compressive strength after 28 days	>6.0 N/mm <sup>2</sup>

All values are subject to 5-10% tolerance

## Coverage

45 kg/m<sup>2</sup> for 40mm thickness

## Packaging

BETOLITE\* is available in 30 kg bag

## Storage

Keep the product in a dry covered place into original well closed packaging. Shelf life is up to 12 months in unopened bags stored in a cool dry place.

## Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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