

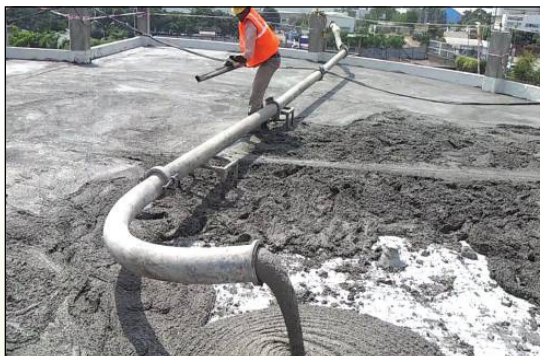
CONCRETO[®]

XLITE

Light Weight Concrete



Utility area filling



Terrace overlay



Floor levelling

Low density, thermal insulative concrete

Xlite is low density concrete as low as 800 – 1800 Kg/cu.m. It enhances thermal insulation and effectively replaces brickbat coba, concrete screed, protection screed thereby reducing dead load on existing structures.

Applications

- Filling of areas like sunken portions, back filling, void filling etc.
- Light weight floor and roof screed
- Thermal Insulation
- Slope maintenance for terrace overlay systems. Replacement of brickbat coba, screed etc
- Other light weight structural requirements (Not the structure that undergo chronic movements)

Advantages

- Reduces dead load on existing structures largely, helps optimize design cost
- Better thermal & sound insulating capability vs standard concrete & brickbat coba (low thermal conductance)
- Ease of Placement – much faster & time saving solution, surface is ready to use within 24 hrs
- Easily pumpable to necessary horizontal & vertical distances (> 40 m)
- Exceptionally low densities are obtainable – upto 600 kg/m³
- More consistent, better alternative to “Foam concrete”
- Easy to repair & maintain
- Very low risk of shrinkage cracks

Concrete Properties

Density (Kg/m ³)	800 to 1800
Compressive Strength (28 days), MPa	2–6
Cement	All cement types
Slump	300 – 400 + mm
Water Absorption	5–10 %
Thermal Conductance (W/m °K)	0.17 to 0.54

N.B: Mix design can be customized as per customer’s requirement



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Rooftop with brickbat coba

Recommended Use of Xlite:

Density (Kg/m ³)	Recommended Applications
up-to 800	Alternative to foam Concrete
800 to 1200	Filling areas, floor screed etc
1200 to 1800	Alternative to brickbat coba/concrete screed for terrace overlay

Other Properties

- It is not attacked by animals, insects or parasites.
- It can be used with or without reinforcement.
- It can be nailed, screwed, and sawed.
- Low puncture resistance

Important

- **Slump loss in transit of Xlite:** Good to use within 3 hrs from plant dispatch or mix to be designed – if retention time is more than 3 hrs.
- **Curing:** Minimum 7 days curing important i.e. as required in normal concreting.
- It is mandatory to cover Xlite with 25 to 50 mm finish layer i.e. mortar(regular) or tiles/granite/marble when used as screed.
- Xlite can't be kept exposed to UV rays.

Characteristics

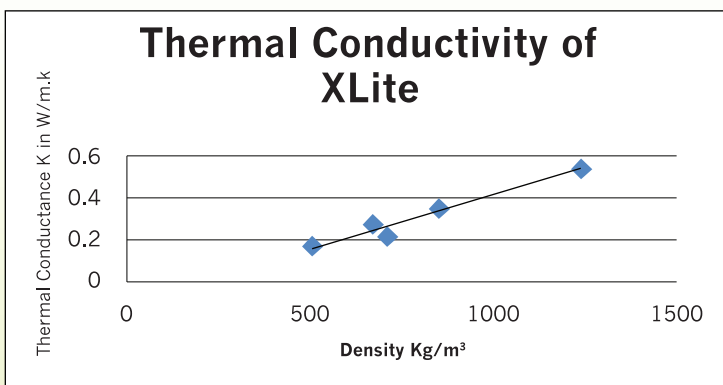
Speed: Faster execution, replaces conventional system of bricks/block laying which is highly time consuming.

Safer and Clean workplace: No labour involvement to handle brickbats, blocks, cement, sand, foaming chemical etc.

Placement: Easy to place & Spread, can be pumped, low labour cost for transit & placing.

More Durability: Uniform distribution of EPS beads provide stable concrete covering large surface area at single time, eliminates risk of improper distribution of concrete & cracks.

Remark: Concrete to be placed within 3 hours from batching.



The test result performance improvements are all under ideal controlled conditions and may not represent actual field results

Source : National Laboratory for testing & development of thermal insulation, Gujarat



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