

Vicolite C5

Vermiculite Based Insulating Lightweight Mortar

VICOLITE C5 is specially designed for use in a variety of situations where either insulation or lightweight properties is sought. It can be used as an insulating screed, having lightweight properties, on walls, raised floors and reinforced concrete roofs.

It is conveniently pre-packed in the factory into bags for hassle-free application at site. Simply add water, mix to consistency and the product is ready to be laid.



ADVANTAGES

Factory Controlled Quality

Under stringent factory quality control, **VICOLITE C5** is assured of its properties which meet tomorrow's building standards.

Lightweight Mortar Supplied In Bags

As a lightweight mortar, it comes pre-packed in bags. The weight of **VICOLITE C5** is way below that of traditional cement sand screed, allowing for lighter roofs and overall building structural weight.

Easy Application

Simply add water, mix and the product is ready to be laid on the site.

Physical Stability

VICOLITE C5 is extremely stable both physically and chemically over a wide range of temperatures.

Thermal Insulation

The low "K" value of **VICOLITE C5** provides the necessary insulation against transfer of heat into a building, resulting in comfort and reduced air conditioning costs.

Versatility And Flexibility In Design

Application of **VICOLITE C5** can be laid to fall, in the form of precast blocks or panels at the site without sacrificing any of its properties. Flexibility design allow it to be laid over RC roof and flooring.

Manufacture To Specification

Our versatile manufacturing process allows production to be designed to match particular specification, such as density, strength etc.

AREA OF USAGE

Roof Insulation

VICOLITE C5 is the perfect solution for lightweight roof insulation, with its low "K" value, low density, physical stability and ease of application. Moreover **VICOLITE C5** can be laid to fall.

Wall Insulation

Effectively reduce the amount of heat gain in the building. Results in significant cost savings with the reduction of mechanical cooling needed.

Raised Floors

Its low density allows structural engineers to raise existing floors without increasing the structural members.

Sound Insulation

VICOLITE C5 is also naturally sound absorbent. The numerous applications of **VICOLITE C5** for sound absorption include infill between walls and support beams or columns.

TECHNICAL DATA (under laboratory conditions)

PROPERTIES	TYPICAL RESULTS
Normal Dry Density (ASTM C567 / C567M : 2011)	890 kg/m ³
Compressive Strength (ASTM C495 / C495M : 2012) @ 28 days	> 8.0 N/mm ²
Thermal Conductivity (ASTM C177 : 2010)	0.2358 W/m °K
Combustibility (BS 476)	Non-combustible
Yield	0.032 m ³
Packaging	28 kg
Water per bag	15 litre

PRODUCT COMPARISON

CHARACTERISTICS	VICOLITE C5	POLYSTRENE
In-organic	Yes	No
Non-toxic	Yes	No
Chemically inert	Yes	No
Non-combustible	Yes	No
Self-supporting	Yes	No
No differentia expansion	Yes	No
Resistant to indention	Yes	No

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/ herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

MIXING

- **VICOLITE C5** can be mixed by either a hand held electrical mixer or pan mixer. Simply place the **VICOLITE C5** premix in a clean container or mixer and add the recommended amount of clean water and mix until a homogeneous consistency is achieved.
- Hand mixing should be done in such a way that it is mixed in a large tray so that water with cement slurry will not drain away during mixing.

APPLICATION

Pump or pour, **VICOLITE C5** can be spread easily to the required thickness. To achieve a smooth surface, it is recommended that a small quantity of water is sprinkled just before the final set is applied and steel trowelled.

CURING

VICOLITE C5 should be allowed to dry for at least 3 days in fair conditions before waterproofing is applied.

PRECAUTIONS

- Avoid eye contact and unnecessary skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

VICOLITE C5 is supplied in 28 kg bags and has a shelf life of 12 months if stored in a cool and dry place in sealed packaging with sheltered protection from rain and sunlight.

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