

PRODUCT DESCRIPTION: Fibset 412 is a high quality one pack lightweight inosilicates based powder Type-2(IS 15477:2019) tile adhesive. With low dust technology and with low emission organic volatile compounds, very high yield, good trowel ability and excellent back buttering capacity for ceramic tiles and stones.

AREAS OF APPLICATION

- Bonding all types and sizes of ceramic tiles and mosaics (double-fired, single-fired, porcelain, klinker, terracotta, etc.) on uneven internal and external substrates.
- Bonding stable natural stone not susceptible to staining on internal and external surfaces.
- Bonding thin porcelain tiles.
- Crack on precast structures
- Suitable for spot bonding insulating materials such as expanded polystyrene, expanded polyurethane.

ADVANTAGE

- LEED Compliant
- Easy to apply
- No Smell
- Good back buttering capacity
- Good adhesion on multiple substrates
- Good capacity to absorb deformation
- Good open time

APPLICATION

Blend Fibset 412 with clean water to obtain a smooth, lump-free mix. Let the mix stand for approximately 5 minutes, then blend again. Approximately 13-15 liters of water are required for each 25 kg bag of Fibset 412.

Apply Fibset 412 on the substrate using a notched trowel. Use a trowel with a notch size which guarantees complete buttering of the back of the tile. To guarantee a good bond, apply a thin layer of Fibset 412 on the substrate using the smooth side of the trowel, and then immediately apply a further layer of Fibset 412 to the thickness required using a suitable trowel, according to the type and size of the tiles. When installing ceramic tiles on external surfaces, adhesive must also be spread on the back of the tiles if at least one side is longer than 30 cm or if the floor is subjected to heavy loads, in compliance with standards. When laying thin porcelain floor tiles, we recommend that the adhesive is also spread (with the suitable notched trowel) on the backs of the tiles to guarantee there are no gaps to avoid the risk of fracture when in service.

The tiles do not need to be wet before they are laid. However, if the back faces are particularly dusty, dip them into clean water. When laying tiles, apply a firm pressure to guarantee good contact.

The open time for Fibset 412 is at least 15-20 minutes in normal weather and humidity conditions. When conditions are not ideal (direct sunlight, dry wind, high temperatures, etc.), or if the substrate is particularly absorbent, this time may be reduced to only a few minutes. Therefore, check often to make sure a skin does not form on the surface of the adhesive, and that it is still fresh. If a skin forms, spread the adhesive again with the notched trowel. Do not wet the surface of the adhesive if a skin forms. Water does not dissolve the skin, and impedes a good bond. Tools can be cleaned up with water.

CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

TECHNICAL SPECIFICATIONS

TECHNICAL DATA (Typical Values)	
Consistency	Powder
Colour	Grey
Bulk Density (kg/m ³)	740-780
Dry Solids %	100
Mixing Ratio	100 parts powder with 52-60 parts water
Consistency of mix	Creamy
Density of Mix (kg/m ³)	1.2-1.3
pH of mix	> 12
Open time	15-20 min
Adjustment Time	10-15 min
Set to light foot traffic	24 hours
Resistance to Alkalis	Excellent
Resistance to Oil	Excellent
Resistance to solvents	Excellent
In Service Temperature range	-20 to 90 °C

Performance Data (Typical Values)	
Bond Strength EN 1348 N/mm ²	
Initial Bond 28 days	0.8-1.2
Bond after application of heat source	1-1.4
Bond strength after water	0.9-1.1
Bond Strength after freeze-Thaw cycle	1.1-1.5

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

PACKAGING

Fibset 412 available in 25 kg bags.

STORAGE

Store the material at temperatures between + 10° C and + 45° C in originally sealed packages, the material can be stored for 6 - 8 months. But before opening the bags. Open bags of material should be used quickly to avoid moisture contamination.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of the product should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals pvt. ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

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