

Version V6
FIBRE CEMENT TILE BACKER



CEMBLOC.
CEMBACKER
6 & 12 mm

TILE BACKER



GUIDE

Relevant Ancillaries For CemBacker 6mm and 12mm).

CemBond Max Strength (310ml)



CemBond Max Strength is a creation of combining both a sealant and adhesive through Hybrid polymer technologies, the all-in one product for the CemBacker/ CemPlate and Drybloc TG4 ranges. Combining the benefits of both polyurethane (mechanical strength) and silicones (elasticity).

Bead	Coverage	Boards
2.5mm	34LM	8-11*
4.5mm	18LM	5-7*

*When applying Cembond Max Strength to the rear and edges of 1200 x 600 boards.

CEMBOND SBR (1 L)



CEMBOND SBR offers excellent adhesion to fibre cement, concrete, brickwork masonry, renders and steel. It also imparts excellent waterproof and weather resistant properties. It can also be used as an admixture to improve flexibility, tensile strength and reduced shrinkage.

Product	Coverage	Boards
Cembond SBR 0 Dilution (Recommended)	7 m2	10
Cembond SBR 1:1 Dilution	14 m2	20

Cembloc FCB 25/32/42mm



Specifically designed for fixing Cembloc fibre cement board to timber and thin sheet metal (max. 0.6mm). Self countersinking head for a secure and flush finish. Twin-cut point with a hi-low thread. Exterior grade coating for superior corrosion resistance.

Product	Recommended Screw	Screws Per Board
CemBacker 6mm	Cembloc FCB 25mm	8-9*
CemBacker 12mm	Cembloc FCB 42mm	8-9*

* screws required per board is sufficient unless there are unusual circumstances.

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CemBacker Description.

Technical Datasheet

CemBacker, developed by CEMBLOC, is a highly versatile construction board that serves a multitude of purposes, including tile backing, plywood replacement, acoustic board and more. It is specifically engineered to deliver exceptional fireproof and waterproof protection for both walls (12mm) and floors (6mm). The board has been rigorously tested by leading tile adhesive companies and the world's largest manufacturer of ceramic and porcelain tiles, ensuring the highest quality standards. With an impressive strength of 105kg/m², it can support the heaviest tiles available on the market.

CemBacker surpasses traditional methods such as plasterboard and plywood, which tend to deteriorate and rot over time in wetrooms. It offers superior moisture and fire resistance, as well as remarkable dimensional stability. Unlike its counterparts, it remains unaffected by water, making it an ideal non-combustible, A1 fire rated solution that is UV stable and fully weatherproof. It can withstand extreme temperature conditions.

The CemBacker tile backer board is intelligently designed, employing a 6mm thickness for floors and a thicker 12mm version for walls. This specialised waterproof backing system effectively combats any potential negative effects of water during and after the tiling process.

CemBacker is a versatile tile backing solution that is impervious to water, has an A1 fire rating, and can withstand freezing temperatures and UV exposure. It is particularly suitable for wet environments.

Advantages Of Use.

- Protects sub-construction system.
- Environment friendly.
- Does not contain any harmful substances to health.
- 100% Asbestos free.
- A1 Fire Class
- Does not release toxic gas during the fire.
- Resistant to moisture and water.
- Resistant to the effects of sunlight.
- Resistant to seasonal changes.
- Easy assembly and modification procedures.
- Easy to cut.
- A finishing material, eliminates drying times of wet screed.
- Extends and protects the life of insulation material when-used in heat and sound insulation systems.
- Soundproofing properties.

- Extremely high dimensional stability (<0.19%) when-compared to chipboard, gypsum and cement particle.
- Has feature of water repellent.
- It is odorless and does not release toxic gas.
- Resistant to impacts.
- Resistant to biological and chemical wastes.
- Easy to carry, light weight.
- Insect-proof, non-putrescible, no molding.
- Offers different solutions in all areas of building projects.
- Creates facades and surfaces compatible with fire-regulations.
- Can be used with insulating material of any desired-thickness.
- Can be used in fine details with smooth cutting surfaces.
- Very high impact resistance compared to gypsum based-boards.

Standard Dimensions.

Thickness

6mm (for floors), 12mm (for walls)

Dimensions

1200 x 600mm



Technical Specifications.

CEMBLOC.

Water Impermeability	Pass - No sign of water marks on the opposite side after 24H test.
Thermal Conductivity	0.216 W/mK
Bending Strength (Modulus Of Rupture)	MOR Minimum of 6mm 14.27MPa. MOR Average of 6mm 16.70MPa. MOR Minimum of 9mm 13,04MPa. MOR Average of 9mm 15.88MPa. MOR Minimum of 12mm 13,92MPa. MOR Average of 12mm 16,48MPa. Transverse > 13,0N/mm ³ . Vertical > 10N/mm ³ .
Pressure Strength	30 N/mm ²
Tensile Strength	10 N/mm ²
Shearing Strength	> 345 KPA
Pull Through	Average 1981 N Maximum 2258 N 75454 - FBCS3.9X35
Pull Out	850 N
Water Absorption	<29%
Wet Expansion Rate	0.23%
Heating Shrinkage Rate	0.18%
Density	1350 kg/m ³ (± 50kg)
Fire Propagation	Class "0" (<2) (BS 476-Part 6)
Fire Resistance	Class 1 (BS 476-Part 7)
Combustibility	Non-Combustible
Reaction To Fire	A1
Acoustic Rating (DnTw)	Superior sound insulation credentials for a wall built using Cemplate in conjunction with a sound isolation clip system and furring bars, ranges between 46 db and 51 db.
Maximum Tile Weight	Up to 105kg/m ²

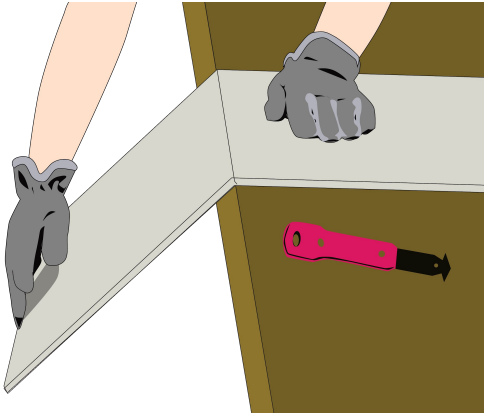
Areas Of Use.

Tile backer boards for use behind ceramic tiles in wet- room areas.
Perfect for 'Ready Wall Panel' systems.
For use as a wall finish.
Ideal for use on pre-fabricated buildings.
As the finishing material by just painting.

In areas where sound insulation is required.
In thermal insulation systems.
Undercloak backer board of roof covering materials.
As backing material of cabinets or panels.
On walls, parapets and ceilings of balconies and terraces.
Soffit and fascia cladding.

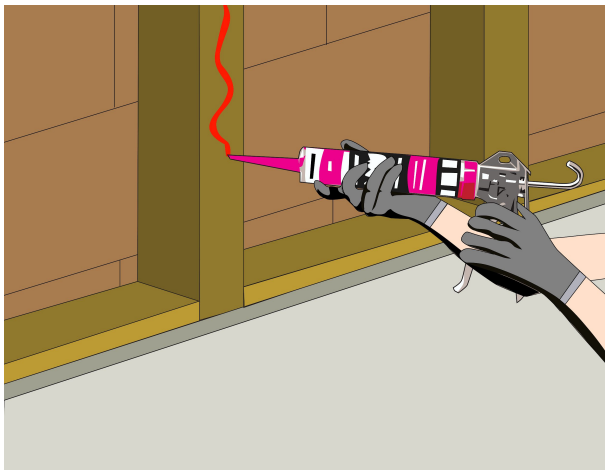
CEMBLOC (UK)
Nottingham / Head Office
T: +44 (0) 208 050 5302
E: support@cembloc.com
W: www.cembloc.com





Step 1. Score and snap:

Boards may be cut cleanly and easily by scoring one side of the board using a hard tipped scoring tool, then snapped over a solid block. For shapes and curves tile nippers should be used. The use of a Polycrystalline Diamond (PCD) Saw blade is recommended to speed up the cutting process.



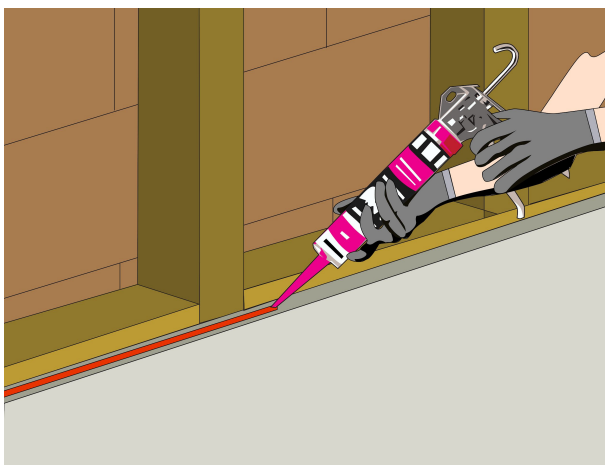
Step 2. Stick boards to Wall:

Run a bead of **Cembond - MAX Strength** Hybrid Adhesive/Sealant 310ml along the timber or metal stud work before offering up the first board (this is to create waterproof seal around the screw hole). The CemBacker is then to be applied in a brick pattern. Studs to be max 600mm centres with cross battens on board joints.



Step 3. Secure with screws:

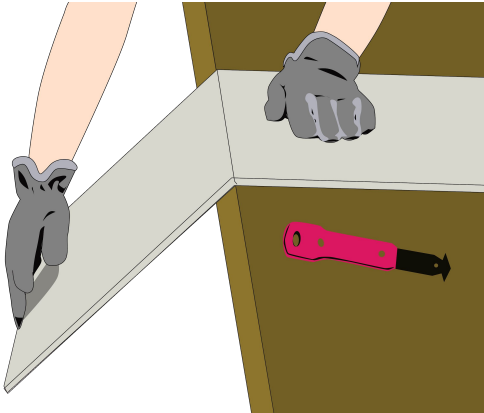
Use 9Nr **Cembloc FCB Screws** 4.2mm x 42mm self-drilling and self-countersinking cement screws per board to secure them in place. Screws will prevent boards moving as a result of the Cembond - MAX Strength Hybrid Adhesive/Sealant 310ml expanding slightly as it dries.



Step 4. Waterproof the joints:

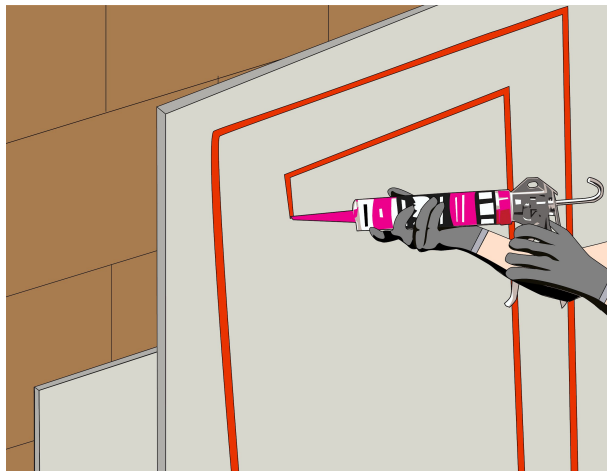
Run a bead of **Cembond - MAX Strength** Hybrid Adhesive/Sealant 310ml along all edges before the next board is offered up. This reinforces and waterproofs the joints, eliminating the need to tape them. Wipe off any excess adhesive using a damp cloth.

Installation Guidelines for Cembacker 12mm (For Walls).



Step 1. Score and snap:

Boards may be cut cleanly and easily by scoring one side of the board using a hard tipped scoring tool, then snapped over a solid block. For shapes and curves tile nippers should be used. The use of a Polycrystalline Diamond (PCD) Saw blade is recommended to speed up the cutting process.



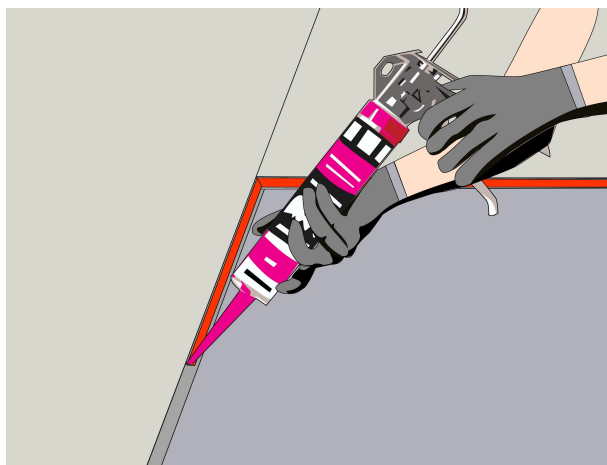
Step 2. Stick boards to floor:

Screw down existing floorboards firmly and sweep clean. Run two beads of **Cembond - MAX Strength** Hybrid Adhesive/Sealant 310ml to the back of the board.



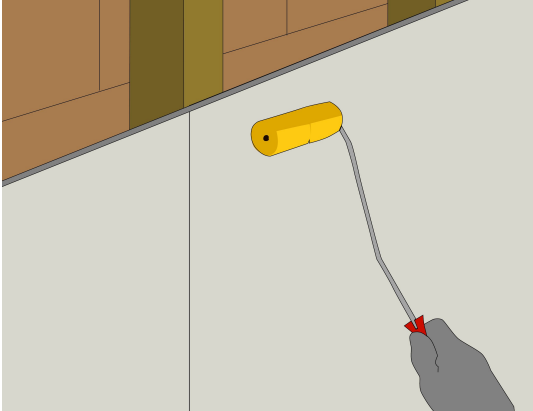
Step 3. Secure with screws:

Use 9Nr **Cembloc FCB Screws** 4.2mm x 25mm self-drilling and self-countersinking per board to secure the board in place. Position the screws 25mm from the edge of the boards. Screws will prevent boards moving as a result of the Cembond - MAX Strength Hybrid Adhesive/Sealant 310ml expanding slightly as it dries.



Step 4. Waterproof the joints:

Run a bead of **Cembond - MAX Strength** Hybrid Adhesive/Sealant 310ml along all edges before the next board is offered up. This reinforces and waterproofs the joints, eliminating the need to tape them. Wipe off any excess adhesive using a damp cloth.



Step 5. Prime The Board:

For all tiling applications we would recommend priming the top surface of the boards with **Cembond SBR** or as advised from the manufacturer of the desired tiles.

This step is recommended to improve the tile adhesion, especially for heavier tiles and to improve adhesive open times making the installation that bit easier.

CemBacker FAQ's.

Q. Can I use Plywood instead of CemBacker?

- A. No. Under British Standards BS 5385 Part 1, plywood is not a suitable substrate for the direct fixing of wall tiles, therefore when tiling onto walls, a tile backer board is required. However, tiling onto plywood overlaid floors is acceptable under British Standards.

Q. Do I need to Prime?

- A. For a solid foundation for your tiles, it is recommended to prime CemBacker Tile Backer Boards with **Cembond SBR** to improve tile adhesion and adhesive open times.

Q. Do I need to use CemBond on the CemBacker?

- A. Yes, **CemBond Max Strength** Sealant/Adhesive is necessary for all Cembloc installation guides to protect and adhere the boards in place.

Q. Which way round do I lay the CemBacker?

- A. The CemBacker board should be laid with the print side up, with the text located on the top corner of the board. If the text cannot be found, the boards have a smooth side (the printed side) and a slightly textured side to the rear. Whilst it does not matter which side is tiled onto, it is recommended to tile onto the smoother surface.

Q. Difference in CemBacker 6mm and 12mm?

- A. Both CemBacker 6mm and 12mm Tile Backer Boards are ideal for tiling but are used differently. The CemBacker 6mm Tile backer is used to strengthen timber floors and overcome deflection without unnecessary floor height build-up. On the other hand, the CemBacker 12mm Tile backer is designed to carry the heaviest tiling materials and is fixed directly to stud work in high traffic areas.

Q. What Is CemBacker made of?

- A. CemBacker 6mm and 12mm are fibre cement boards made from organic fibre, sand, cement, and water. The mixture of these ingredients is critical to produce a strong, firm, water-resistant board suitable for heavy tiles and moisture.

Q. What are the key benefits, when comparing CemBacker?

- A. CemBacker is resistant to water, moisture, mold, and pests, and Cembacker fibre cement is non-combustible, with a Class A1 fire rating.

Q. What glue do I use with CemBacker?

- A. We recommend using **CemBond Max Strength** Sealant/Adhesive along with **Cembloc FCB** screws when installing CemBacker.

Material Safety (MSDS).**Health And Safety Best Practises.**

Dust: When processing the boards, for example, cutting, drilling, sanding etc, these will generate dust. As a result, attention should be paid to the dust particles generated and measures put in place to minimise their effect. Please process the boards in a well ventilated area with the use of localised extraction to avoid dust inhalation.

Skin Contact:

- **Acute Effect:** The dust from these products may cause irritation of the skin due to friction but is not absorbed through the skin.
- **Precautions:** Direct contact with dust and debris should be avoided by wearing full body covering overalls. .
- **Measures taken if effect experienced:** Wash thoroughly with soap and water.

Ingestion:

- **Effect:** When processing, the dust may affect food and beverages, indigestion of the dust may result in abdominal discomfort.
- **Precautions:** Do not attempt to eat the board, put the board near the face and avoid touching your face and mouth when previously dealt with the board.
- **Measures taken if effect experienced:** Ingestion is unlikely due to product size. However should this occur, seek medical attention immediately.

Inhaled:

- **Effect:** The dust from processing may cause irritation of nose, throat, lung and cause coughing and sneezing via breath.
- **Precautions:** During dry cutting ,drilling, routing , sanding and any continuous handling where dust is generated, used an approved particulate dust mask .
- **Measures taken if effect experienced:** Go into a open area with plenty of air circulation outdoors and drink plenty of water, until acute effects have gone.

If any acute effects persist, seek medical attention immediately.

Handling Requirements.

Minimise the dust generation at the workplace. When there is cutting, sawing, sanding or grinding during the installation and handling of this product, it should be carried out at well ventilated area (e.g. outdoor, open-area). Work area should be cleaned regularly by wet sweeping or vacuuming.

Cembloc panels are stacked on timber pallets. The boards must be stored in a ventilated and dry environment on a flat, level surface protected from contamination. To avoid excessive flexing of the boards, long edges must be supported when lifting and handling.

Storage:

Store in a dry well ventilated area. The boards should be protected from excessive humidity and temperature changes, such as rain, sun, wind and moisture. The boards must always be stored on flat level surface.

Contact us.

Let's talk about your project.

We are proud of our reputation for excellent service. Whether you require, part or full load deliveries, our team will make sure we do everything possible to help you and your project, as together we can build better.

**England, UK Sales Office.**

Orchard House, Nottingham.

Mainline: +44 (0)208 050 5302

Enquiries: support@cembloc.com

Finance: accounts@cembloc.com

**Texas, USA Sales Office.**

Sunridge Business Park, 101 Sunridge Blvd

Wilmer TX75172

Enquiries: support@cembloc.com

**Dubai, UAE Sales Office.**

The European Business Centre,

2534+G2J - Dubai Investments Park

Enquiries: support@cembloc.com

**Paris, France Sales Office.**

COMING SOON

**Sydney, Australia Sales Office.**

Hollinsworth Road, Marsden Park,

NSW 2765

Enquiries: support@cembloc.com

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