

Technical Datasheet ATAL FLOBOARD CM20

Description

The CM20 cavity drain membrane is a 20mm studded membrane, suitable for Type C waterproofing and delivering a Grade 3 environment to BS 8102:2022 and NHBC chapter 5.4. CM20 is the highest drainage capacity membrane in the Atal waterproofing range.

Advantages

- Part of a Type C cavity drain membrane system in line with BS 8102:2022.
- Gives a high water void volume of 14 liters/m².
- Quick to install - easy to roll out along floors.
- Creates a dry, habitable living space in areas previously suffering from damp or wet conditions.
- Easily cut down using a sharp blade.
- Waterproof, salt inhibiting, root and contamination resistant.
- Little or no damage to the existing structure.
- Low and high temperature tolerance.
- High grade material.

Available in rolls of 2m x 20m and 2m x 10m* (*only 20 kg in weight)

Typical Uses

Radon barrier approved - Walls, Floors, Vaults, Tunnels and Above and below ground level Waterproofing applications.

Substrate Preparation

- When used in new construction, the concrete slab must be laid in accordance with BS 8204- 1:2003+A1:2009 to achieve a flat surface not deviating more than 5 mm from the underside of a 3000 mm straight edge.
- Unsound plaster, render or screed should be removed and surfaces made level, with floors to the above tolerances. This can be achieved using incorporating Asocret M30. Leave all new works to dry thoroughly before CM20 membranes are fixed.
- In case of walls suffering from mould or masonry fungi, prior to fixing the membrane, remove surface contamination by brushing, then apply a suitable biocide in line with the relevant Technical Data Sheet.
- If dry rot (*Serpula Lacrymans*) is present in the walls, this will require detailed assessment before proceeding. Please contact the Atal Technical Department for further advice.
- Above ground level it is recommended that, where possible, all sources of moisture are alleviated at the source using a DPC, before applying CM20 membrane. This reduces potential damage to masonry and timber etc.

Technical Datasheet ATAL FLOBOARD CM20

Conditions and Limitations

Flat soffits below ground should never be lined with Atal CM20 membrane as it requires a minimum slope of 10%. Take care when running CM20 membrane around internal and external corners to ensure the sheet is fixed tight to the angle. When applying CM20 to walls, we advise that you contact the Atal technical department for advice on application, fixings and finishes.

Application

Atal CM20 Membrane is applied with studs facing the wall or floor, using CM Brick Plugs for wall applications.

Floor Applications:

1. We recommend an application of Atal Anti Lime Sealer to the concrete walls and slab, before application of CM20, to prevent lime efflorescence and dusting, which can block perimeter drainage channels.
2. CM20 is rolled out on the concrete slab and sealed using Atal Corner Tape (where internal and external corners occur).
3. Sheets of CM20 membrane should overlap by 3 studs and "interlock".
4. Fixings should not be applied to floor membranes.

Wall Applications:

In areas which could be vulnerable to high water ingress, Atal CM20 can be applied to both walls and floors.

1. Drill a hole through the CM20 Membrane, through the center of the stud. Take care when drilling holes to avoid excessive masonry dust from falling into the cavity.
2. Place the chosen CM plug (with seal for all underground waterproofing applications) into the hole and drive the fixing home with a wooden or rubber mallet.
3. Seal the membrane at the flanges (a band of membrane running along the edge where no studs are present) with Atal Tape.
4. Stud-to-stud joints are overlapped by at least two rows (three in very wet conditions) and the flat area is then sealed with Atal DS Butyl Tape and Atal Black Overlap Tape.
5. Ensure flanges run vertically on walls and are positioned in front of the preceding width of membrane. In the case of horizontal joints, the lower sheet is positioned to the front.

Technical Datasheet ATAL FLOBOARD CM20



Technical Data	Results	Test Standards
Material	HDPE	N/A
Unit Weight	1 Kg/m ²	N/A
Sheet Thickness	1 mm	N/A
Stud Height	20 mm	N/A
Colour	Black	N/A
Water Tightness 60 kPa; 24h	Pass	EN 1928
Working Temperature	-50° C to +80° C	N/A
Softening Temperature	126° C	N/A
Tensile Strength MD	416 N	BS 12311-2
Tensile Strength CD	488 N	BS 12311-2
Resistance to Static Loading	>20 Kg	BS 12730
Compressive Strength	170 kN	BS EN ISO 25619-2
Reaction to Fire	Class F	BS EN 13501-1:2007+A1:2009
Type of Application	Type V	N/A

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Finishing

Floor applications:

When the Atal CM20 membrane has been applied, refer to your design specification with regards to insulation application (if necessary). Basement floors are finished with a concrete pour or a 65 mm screed. Impermeable floor finishes should not be laid until screed moisture content is below 75% rh.

Stud Frame

When using CM20 on walls, please contact the Atal group technical department for advice on appropriate application of finishes.

Aftercare

Atal CM20 membranes provide a dry, warm and habitable living space in basements and other areas suffering from chronically damp conditions. However, it is equally important that areas which lack natural ventilation are provided with adequate means of condensation control, especially in wet areas such as kitchens, bathrooms etc.

This is best achieved through the provision of an effective mechanical ventilation system. Please consult the Atal Technical Department for further advice.

Storage and Shelf Life

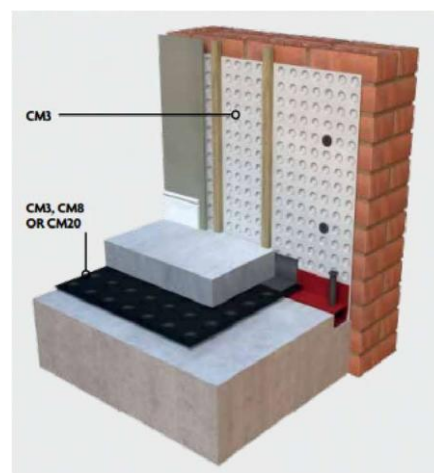
Store in an upright position, under cover and away from high temperatures and open flames. Shelf life is the lifetime of the structure, when stored and installed in line with the datasheet recommendations.

Technical Datasheet ATAL FLOBOARD CM20

Health and Safety

No specific hazards are likely to arise while using any Atal Waterproofing Membranes or ancillaries; neither are classified as hazardous in respect to CHIP II Regulations 1999. However, general precautions should be exercised in the use of drills etc. Taking particular note of the special risks associated with working in confined spaces (basements) with restricted access/egress. The Atal Group always advise the use of appropriate PPE, including gloves, hard hat, goggles, high visibility jackets and steel toe cap boots.

Pack Size	Coverage
2m x 10m	20m ²
2m x 20m	40m ²



Disclaimer:

The technical information reflects our current knowledge of Flo Board CM20. It is intended only as information for users. As we do not know the envisaged application and installation conditions, it is the responsibility of the user to carefully check that the product is fit for purpose. Due to the different components at the installation site and the in-situ working conditions, ATAL cannot provide any guarantee whatsoever for the result of the work. Claims arising from any legal relationship can only be recognized in the event of willful intent or gross negligence, irrespective of the statements made here or advice provided verbally. In this case the user must prove that he has provided ATAL in writing with all the information required to correctly assess the installation situation in good me. Subject to necessary product specifications or further developments.