

Xtra-Shield GRM

Self Adhesive Gas Retardant Membrane

Data Sheets

IDENTIFICATION

The requirement for gas retardant membrane systems is rapidly increasing following the discovery of further radon affected areas. In most cases, these systems also need to act as damp-proof membranes, at slab level and through the wall. The Icopal systems are manufactured to address the problems of gas retardation, damp proofing and build ability.

DESCRIPTION

Xtra-Shield GRM is a white surfaced self-adhesive, cold-applied flexible sheet membrane with a 50mm bitumen selvedge to improve lap security. It comprises a bitumen/polymer, self-adhesive compound, aluminium foil and cross-laminated, high-density polyethylene carrier, with a protective release sheet. Manufactured for use where gas retardant properties are required. Xtra-Shield GRM has a low permeability to radon.

PERFORMANCE AND PROPERTIES

Roll Size	19.05m x 1.05m
Area	20m ²
Thickness	1.5mm
Weight	1.7 kg/m ²

QUALITY ASSURANCE

Xtra-Shield GRM is manufactured under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.



Certificate No: Q5556

DURABILITY

Xtra-Shield GRM, when fully protected and subjected to normal service conditions, will provide an effective barrier to the transmission of water and water vapour for the lifetime of the structure in which it is incorporated.

COMPATIBILITY

Xtra-Shield GRM is compatible with all materials with which it will be in contact within normal construction, with the exception of timber preservatives based on creosote or tar oils. It is unaffected by timber preservatives that are water based solutions of salts. If in any doubt as to compatibility, please contact the Technical Services Department.

INSTALLATION DETAILS

Preparation of surface: All surfaces should have a smooth finish, free from cavities, projections and mortar deposits. Surfaces should be dry and free from dirt and dust, frost, release agents and other contaminants.

Priming: All surfaces to which Xtra-Shield GRM is to be applied to must be primed with one coat of Xtra-Seal Quick Drying Primer at a rate of **0.1 to 0.5 litres per m²** dependent on the porosity of the surface. The primer must be allowed to dry before the application of the membrane or DPC.

Angles and corners: An angle reinforcement strip should be used at all angles and corners. Reinforcing angles are formed by cutting a 300mm strip of Xtra-Shield GRM from the roll.

APPLICATION

Xtra-Shield GRM should be applied as follows: Remove the paper backing which protects the membrane by pulling evenly across the width of the sheet. Working from the top downwards, press the membrane bituminous face onto the primed surface, working from centre to edge to expel trapped air. Strips should be overlapped a minimum of 150mm at edges and roll ends. Overlaps must be clean and dry and firmly sealed with a hand held pressure roller. Overlaps must always expel water down.

If work is left uncompleted for other than a short time, the free edge should be well rolled into a primed strip of substrate to ensure a seal. The membrane must be protected immediately from site damage. Immediately before covering, the membrane area should be inspected for holes, tears, and misalignment or wrinkled seams.

Faults must be repaired with an overlay of additional Xtra-Shield GRM. This overlay must be well rolled in and extended beyond the point of damage by a minimum of 150mm in all directions.

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Pre-formed sections are available for change in level and direction and for column cloaks. Laps between Xtra-Shield GRM and Xtra-Shield Alumite should be secured as follows: The Xtra-Shield Alumite DPC should be extended onto the slab by a minimum of 150mm. The top surface of the Xtra-Shield Alumite DPC should be clean and dry. The Xtra-Shield GRM should then be applied to the top of the DPC.

MEMBRANE PROTECTION

On completion, the membrane must be immediately protected following a detailed inspection for damage and faults. To ensure Xtra-Shield GRM is not damaged during backfilling or by following trades, a 25mm screed, or Protection Board should be laid immediately following application.

TYPICAL SPECIFICATION

The gas-retardant membrane to be Xtra-Shield GRM, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester M32 0YL. Tel: 0161 865 4444 Fax: 0161 865. The membrane is to be installed in accordance to the manufacturer's instructions and the requirements of BS 8102: Protection of buildings against water from the ground.

NBS SPECIFICATION

Xtra-Shield GRM is specified using the following clauses: J40/180,
Product: Xtra-Shield GRM.
Manufacturer: Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444 Fax: 0161 865 8433.

DELIVERY AND STORAGE

Xtra-Shield GRM is delivered to site in rolls secured with a paper wrapper. Rolls must be stored horizontally and under cover. Rolls should not be left upright for prolonged periods.

HEALTH AND SAFETY

Health and safety data sheets are available for all materials. Please contact Icopal Technical Services Department for further information.

TECHNICAL SERVICES

Specialist advice and design guidance on all matters relating to Xtra-Shield GRM including CAD detailing for all radon and damp-proofing requirements is freely available from our Technical Department at the address below.

NOTE: This information is given in good faith being based on the latest knowledge available to Icopal Limited. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice. Up to date information is available from the Technical Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on any information provided in this sheet, that the product is suitable for any abnormal use. All products are sold subject to our standard conditions of sale, available on request.

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