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MonarTile[®] Supa-R

Pitched Roofing Systems

Introduction

MonarTile[®] Supa-R is the latest generation of undertile linings featuring a synthetic material with a composite construction. The membrane is designed for use in ventilated warm and cold pitched roof situations. It is used to reduce wind load on slates and tiles to provide a secondary water-shedding layer against wind driven rain or snow. Furthermore, it acts as an anti-condensate pick-up layer to prevent drip effect.

Standard

MonarTile[®] Supa-R undertile lining has been independently site and laboratory tested by the British Board of Agrément, and awarded BBA certificate number 87/1807.



Description

MonarTile[®] Supa-R pitched roofing undertile lining is a three-ply composition. It is manufactured from a co-polymer polyethylene upper layer and has a hydrophilic polypropylene non-woven spun bond under layer and in the middle and extremely strong polypropylene reinforcing grid. The membrane is produced with a matt grey upper surface and a white underside, and printed with overlap guidelines and the product name.

Intended Use

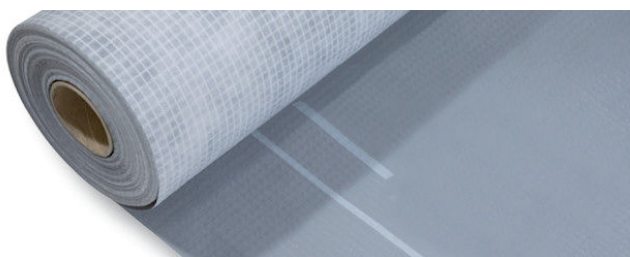
MonarTile[®] Supa-R is a non-vapour permeable membrane intended as an underlay for discontinuous roofing for use in application on pitched roofs over rafters in ventilated roof constructions.

Quality Assurance

MonarTile[®] Supa-R is supplied under a Quality Management System approved to *ISO 9001: 2008* by BSI Quality Assurance.



QMS: Q5556



Properties

| | |
|---------------------------|-----------------------------------|
| Roll Size | 50 m x 1.0 m |
| Colour | Upper: Matt grey; Lower: White |
| Thickness | 0.24 mm |
| Weight/Unit area | 150 gm ⁻² |
| Water Vapour Resistance | 250 MNsg ⁻¹ |
| Water Vapour Permeability | 1.08 gm ⁻² |
| Equivalent air thickness | S _d = 40 m |
| Watertightness | Pass (Class W1) |

Compatibility

MonarTile[®] Supa-R membranes are compatible with most materials normally used within roof substructures and finishes. It may be cut and applied using techniques described in the current '*BS 5534: Slating and tiling for pitched roofs and vertical cladding. Code of practice*'. There are no harmful side effects associated with the material. MonarTile Supa-R is not suitable for use with solvent based timber treatments.

UV Resistance

MonarTile[®] Supa-R membranes are resistant to ultra-violet (UV) light degradation, but are not designed to be left exposed for long periods and must be covered as soon as possible.

Strength

MonarTile[®] Supa-R combine excellent tensile strength characteristics with high puncture and nail tear resistance.

Recyclability

MonarTile[®] Supa-R comprises polyolefins, which can be recycled.

Durability

MonarTile[®] Supa-R is designed to have a serviceable life equal to the primary roof covering performance, provided it is not exposed to sunlight for long periods.



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Installation Details

MonarTile® Supa-R must be installed and fixed in accordance with the manufacturer's instructions, the relevant recommendations of 'BS 5534: Slating and tiling for pitched roofs and vertical cladding. Code of practice' and 'BS 8000-6 : 2013 Workmanship on building sites. Code of practice for slating and tiling of roofs and walls'. Installation can be carried out under all conditions normal to roofing work.

The membrane is installed parallel to the eaves and should be fixed with galvanised large head clout nails. It should be lapped to shed water out and down the slope.

Partially Supported: In partially supported applications MonarTile® Supa-R may be laid draped across the rafters without the need for counter-battens. The membrane should be draped to ensure that surface water can drain freely beneath the tiling battens.

Fully Supported: MonarTile® Supa-R may be laid directly onto sarking boards (or roofing grade ply or OSB). When installed fully supported, the membrane should be laid taut (but not drum tight). Counter-battens must be used, to allow any surface water to drain freely down to the gutter.

MonarTile® Supa-R should be treated as a high resistance layer (HR) in accordance with 'BS5250: Code of practice for control of condensation in buildings'. In warm roof specifications, a ventilation gap of at least 50 mm between the insulation and the underlay should be allowed.

Please consult Icopal Technical Services for further information.

Weathertightness

MonarTile® Supa-R resists penetration of liquid water when subjected to hydrostatic head of water in accordance with class W1 in BS EN 13859-1 and consequently may be used as temporary waterproofing prior to the installation of slates or tiles.

The membrane is UV stabilised and may be left uncovered for periods of up to two months, however the product's exposure to the weather should be considered, especially during winter months when the membrane may become damaged by prolonged periods of strong wind and/or persistent heavy rainfall. In these circumstances the exposure period should be reduced. It is recommended that the membrane is covered as soon as possible. The use of a sacrificial temporary roof covering should therefore be considered if prolonged periods of exposure are expected.

Due to nature of installation an exposed pitched roof underlay is not a complete waterproof barrier and some rain penetration may occur.

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure 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 our Technical Services 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 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.

Eaves Protection

Pitched roof underlays are often dressed into the eaves gutter, leaving a strip of the material exposed to the elements and to UV radiation causing degradation or even disintegration of the membrane. A more durable material for these exposed gutter areas is recommended. Monarflex® EavesGuard is a rigid component designed specifically for this use. It eliminates the need for a tilting fillet and protects MonarTile® Supa-R from prolonged exposure to UV light at the eaves.

Typical Specification

Pitched roof underlay to be MonarTile® Supa-R, as manufactured by Icopal Ltd, Barton Dock Road, Stretford, Manchester, M32 0YL. The membrane is to be installed and sealed in accordance with the relevant codes of practice and with the manufacturer's instructions.

Delivery and Storage

MonarTile® Supa-R is delivered to site in rolls individually shrink-wrapped and bearing the manufacturer's name, product description and the BBA identification mark. Rolls must be stored horizontally on a clean dry surface and under cover for protection from the sunlight and any mechanical damage.

Technical Services

Specialist advice and design guidance on all matters relating to MonarTile® Supa-R is freely available from our Technical Department at the address below.

Availability

| Item Code | Description | Roll Length |
|-----------|------------------|-------------|
| 3007197 | MonarTile Supa-R | 50 m x 1 m |