

# Product Datasheet

## Derbigum Olivine

Sheet No: PD014FR  
 Issued: Sept 2014  
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### Description

Derbigum Olivine is a CO<sub>2</sub> neutralising Thermoplastic Polyolefin (TPO) modified, composite reinforced, mineral surfaced, UV resistant, high performance flat roofing membrane. It is surfaced with a natural olivine granule, which has an opaque olive-green appearance.

### Use

For use as a cap sheet in either a cold applied single layer system, or torch applied as a cap sheet in a traditional built-up roofing system, in both new build and refurbishment projects. The olivine (magnesium iron silicate) granules cause a chemical reaction in CO<sub>2</sub> in rainwater which converts it to harmless silicon dioxide (SiO<sub>2</sub>, i.e. sand), magnesium carbonate (MgCO<sub>3</sub>, i.e inorganic salt) and water. One square metre of Derbigum Olivine will neutralise approx 1.75kg of CO<sub>2</sub>.

### Approvals

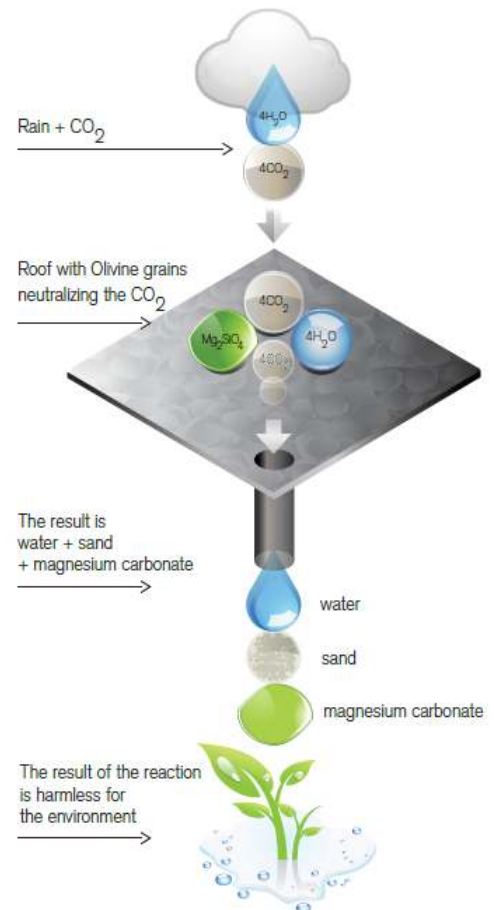
British Board of Agrément Certificate No 85/1593C.

### Product Data

Thickness	4.0mm
Width	1.1m
Length	7.27m
Weight	5.6 kg/m <sup>2</sup>
Weight per roll	45 kg

### Performance Data

Tensile Strength - longitudinal	900 N/50mm
Tensile Strength - transverse	700 N/50mm
Elongation at break - longitudinal	40%
Elongation at break - transverse	40%
Unrestricted shrinkage	<0.1%
Softening point	140° C
Cold Flex	-18° C



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### Application

Fully bonded in Derbibond S by squeegee or spraygun, at the specified coverage rate per square metre, or fully bonded by torch application with 4 Bar propane gas torch equipment.

Laps can be sealed either by torch application or hot-air welding. Lap sizes (all systems): 100mm side, 150mm end.

- All overlaps must be with the slope. Always position the membrane starting from the lowest point.
- Position the membrane sheets staggered, avoiding any overlaps against the roof fall.
- Cut the corners of membrane sheet which will be laid under the next sheet at a 45° angle (100 x 100mm).
- The joints, both side and head, must be respectively overlapped by 100 & 150mm.
- The second layer of membrane will be applied astride and over the first one, always in the same direction, and approx. 1/4 of its length from the previous sheet.
- The bituminous membrane will be applied with a propane gas torch to the substrate. It is necessary to heat the entire surface, making sure that the compound forms a liquid mass in front of the roll to ensure that it saturates any superficial porosity.
- Once torched, the side laps (100mm) and head laps (150mm) must be pressure rolled with a long handled 15kg roller from which a bead of compound should flow, therefore avoiding having to trowel the overlaps.
- Apply the vertical membrane sheet making sure that it overlaps the horizontal one by at least 100mm, heating it with a gas torch and squeezing it with a trowel until a bead of compound appears from underneath.
- The height of the vertical details must be equivalent or superior to the finished surface by at least 150mm.

### Storage

Store upright in a clean, dry location, away from heat sources.

### Health & Safety

Material Safety Data Sheets are available upon request, and can also be downloaded directly from:

[www.alumascroofing.co.uk](http://www.alumascroofing.co.uk)

### Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: [roofing@alumasc-exteriors.co.uk](mailto:roofing@alumasc-exteriors.co.uk)

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