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# Icopal Sedum Mat

## Green Roof Systems



### Introduction

The sedum family of flowering plants is large, and widespread throughout the Northern Hemisphere, varying from annual and creeping herbs to shrubs. They are succulents and therefore have leaves which are able to store water.

### Description

The Icopal mixed sedum mat is a pre-cultivated, UK grown vegetation blanket which comprises a geo synthetic carrier with a thin layer of growing substrate, into which the sedum plants themselves grow. Around 8 – 12 different species are incorporated within the mat allowing flowering of different colours at varying times throughout the summer and early autumn period.

### Intended Use

Icopal Sedum Mat is intended for use as an aesthetic covering designed to provide the perfect low maintenance solution for extensive green roof systems. As the plants are pregrown it provides a green roof with instant impact.

### Application

The Icopal Sedum Mat is to be used in conjunction with the relevant specified components of the Icopal Extensive Sedum Green Roof System. It can be used on both flat roofs with recommended minimum fall of 1:60, and when properly specified, on sloping roofs.

The roof deck and any associated planters should have sufficient drainage points to quickly drain away surface water and prevent waterlogging. Sedum plants are hardy and can withstand dry conditions, but do not like to have excessive water saturation within the root zone.

### Properties

Mat Size Availability	1.2 m x 2.0 m;
Consignment Size	35 m <sup>2</sup> per pallet
Mat Weight	15 kg·m <sup>-2</sup> (dry) 20 kg·m <sup>-2</sup> (saturated)
Mat Depth	20 mm
Composition: Base	Geo-composite polypropylene mesh / coir blanket
Composition: Growing Medium	20 mm Sedum Mix
Composition: Vegetation	Mature sedum plants grown from rhizome and seed
Typical Plant Height	20 – 50 mm
Sedum - Mixed Species sown † (8 – 12 species)	<ul style="list-style-type: none"> <li>- Sedum acre</li> <li>- Sedum album</li> <li>- Sedum ellacombianum</li> <li>- Sedum floriferum</li> <li>- Sedum forsterianum</li> <li>- Sedum hybridum</li> <li>- Sedum kamtschaticum</li> <li>- Sedum montanum</li> <li>- Sedum reflexum</li> <li>- Sedum selskianum</li> <li>- Sedum sexangulare</li> <li>- Sedum spirium</li> </ul>

† Varieties and percentages may vary subject to seasonal variations.

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### Surface Preparation

The Icopal Sedum Mat must be laid on to the Icopal Extensive Sedum Substrate with a minimum depth of 50 mm. The finished surface of the extensive substrate must be firm and level when the Icopal Sedum Mat is laid to ensure a good contact between the substrate and the sedum roots. This will ensure a more successful establishment phase.

### Installation Details

The sedum mat should be handled with care to avoid any damage. Ensure the Icopal Extensive Substrate is raked level before the mats are unrolled over it.

Unroll the mat with the loose end firmly up against the starting edge. Ensure that the edges of the roll are firmly butted up against those of the neighbouring rolls. It is important to ensure that there are no gaps between rolls.

It is also important that once laid the sedum mats are frequently watered to prevent drying out until the roots are fully established into the Icopal Extensive Sedum Substrate. It is therefore essential that there is a means of getting water onto the roof. The establishment period is generally between 8 – 12 months.

The Icopal Sedum Mat system can be installed on flat roofs and roofs with pitches up to 45°, but for slopes over 9° a retention system is required. All slopes over 5° require an eaves edge restraint detail.

### NBS Specification

Icopal Sedum Mat is specified using the following:

**Clause:** Q37/130, Q37/400

**Product:** Icopal Sedum Mat

**Supplier:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



### Delivery And Storage

Icopal Sedum Mats are delivered on pallets with approximately 35 m<sup>2</sup> of sedum mat per pallet.

The Icopal Sedum Mats should be programmed for delivery on the day of installation. The mats should only be left rolled up prior to installation if there is no chance that they will deteriorate.

It may be necessary that if the Icopal Sedum Mats cannot be installed on the day of arrival to site, they need to be unrolled to prevent overheating and allow air to move over them. It is important that whilst unrolled, they are kept moist, either by natural rainfall or by irrigation. If in any doubt, please seek advice from Icopal Limited.

It is not possible to lift and therefore deliver the Icopal Sedum Mats in temperatures where the mats are frozen.

It is not advisable to arrange delivery of the Icopal Sedum Mats in temperatures over 25 °C, as this can lead to the rapid deterioration of the mats in transit or while waiting to be installed.

### Technical Services

Specialist advice and design guidance on all matters relating to Icopal Sedum Mat is freely available from our Technical Department at the address below.

### Availability

Item Code	Description	Roll Size
3101073	Icopal Sedum Mat	1.2 m x 2.0 m

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.