

# Meadowscape Pro™ SuDS

## Product Specification

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### Product Code:

MDSCSUDS

### Manufacturer:

Wildflower Co.

### Manufacturer Contact Details

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# Technical Specification

|                                    |   |
|------------------------------------|---|
| <b>Product code</b>                | MDSCSUDS  |
| <b>Manufacturer</b>                | Wildflower Co.  |
| <b>Dimensions</b>                  | Delivered in 1m³ bulk bags or 2m³ bulk bags equating to 40m² or 80m²  |
| <b>Weight</b>                      | 400kg for a 1m³ bulk bag and 800kg for a 2m³ bulk bag   |
| <b>No. of species</b>              | 49 species 7 non-invasive grasses (UK provenance wildflowers)<br><a href="#">Access full species list here.</a>   |
| <b>Grass:flora sowing ratio</b>    | 60% UK native wildflowers*, 40% grasses   |
| <b>Flowering period</b>            | April- October  |
| <b>Established height</b>          | 25-150cm (Avg height 80cm)  |
| <b>Time to establish</b>           | 3-12 months (at least 1 year for plants that need vernalisation period)   |
| <b>Soil type</b>                   | Suitable for all soil types   |
| <b>Seed provenance and testing</b> | Grown in England using UK native species.<br>Seed analysis results available on request.  |
| <b>Recyclability</b>               | 100%, including packaging.  |
| <b>BNG suitability</b>             | 16 Lowland Meadow indicator species,<br>19 Lowland Calcareous indicator species.<br>Also suitable for Other Neutral Grassland<br><a href="#">Refer to Habitat &amp; Condition assessment.</a> |
| <b>Substrate features</b>          | Contains Hydropor™ for greater moisture retention   |
| <b>Seed mix</b>                    | Calibrated using seed weight analysis   |

## Scientifically Engineered: About this pre-seeded growing medium

This revolutionary substrate isn't your average soil. It's been scientifically engineered and rigorously tested to be the perfect incubator for the wildflower seeds. Compared to traditional methods, this translates to a dramatically improved germination process.

Our unique, 100% natural and peat-free formula slashes the full establishment time from years for traditional seeding, to just 3-12 months, depending on sowing season.

Our seed mixes are already integrated. They are meticulously formulated based on scientific analysis. Seed weight, size and germination undergoes lab analysis for optimum inclusion rates. Omitting this process affects species diversity.

\* Actual % may vary, based on environmental factors and seed availability. You may not see every species listed as the product is designed to adapt to individual settings, including a wide range of soil types and environmental conditions. Many species may not flower within the first year.

# Species List

## Meadscape Pro™ SuDS

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All seed grown by Wildflower Co. is tested to stringent standards for germination and purity.

Seed analysis results are available on request.

\*You may not see every species listed as the product is designed to adapt to individual settings, including a wide range of soil types and environmental conditions. Many species may not flower during the first year.

| Species   | Flowering Time | Ultimate Height | Colour | Life Cycle |
|---|----------------|-----------------|--------|------------|
| <b>Wildflower Species</b>                                       |                |                 |        |            |
| Autumn Hawkbit ( <i>Scorzoneroideis autumnalis</i> )            | June - Oct     | 50              | Yellow | P          |
| Betony ( <i>Betonica officinalis</i> )                          | June - Aug     | 60              | Pink   | P          |
| Birdsfoot Trefoil ( <i>Lotus corniculatus</i> )                 | May - Sept     | 30              | Yellow | P          |
| Bladder Campion ( <i>Silene vulgaris</i> )                      | May - Sept     | 100             | White  | P          |
| Cats Ear ( <i>Hypochaeris radicata</i> )                        | June - Sept    | 45              | Yellow | P          |
| Common Knapweed ( <i>Centaurea nigra</i> )                      | June - Sept    | 100             | Purple | P          |
| Common Sorrel ( <i>Rumex acetosa</i> )                          | June - Aug     | 80              | Red    | P          |
| Common Toadflax ( <i>Linaria vulgaris</i> )                     | June - Nov     | 75              | Yellow | P          |
| Common Vetch ( <i>Vicia sativa</i> )                            | Apr - Sept     | 75              | Purple | A          |
| Cowslip ( <i>Primula veris</i> )                                | Apr - June     | 25              | Yellow | P          |
| Field Scabious ( <i>Knautia arvensis</i> )                      | July - Oct     | 150             | Purple | P          |
| Greater Knapweed ( <i>Centaurea scabiosa</i> )                  | June - Sept    | 100             | Purple | P          |
| Hedge Bedstraw ( <i>Gallium album</i> ) (prev. <i>mollugo</i> ) | June - Sept    | 100             | White  | P          |
| Hemp Agrimony ( <i>Eupatorium cannabinum</i> )                  | July - Sept    | 150             | Pink   | P          |
| Hoary Plantain ( <i>Plantago media</i> )                        | May - Aug      | 30              | White  | P          |
| Kidney Vetch ( <i>Anthyllis vulneraria</i> )                    | June - Sept    | 25              | Yellow | P          |
| Lady's Bedstraw ( <i>Gallium verum</i> )                        | June - Sept    | 50              | Yellow | P          |
| Marsh Woundwort ( <i>Stachys palustris</i> )                    | June - Sept    | 80              | Purple | P          |
| Meadow Buttercup ( <i>Ranunculus acris</i> )                    | May - Aug      | 90              | Yellow | P          |
| Meadow Crane's-bill ( <i>Geranium pratense</i> )                | June - Sept    | 90              | Purple | P          |
| Meadow Vetchling ( <i>Lathyrus pratensis</i> )                  | May - Aug      | 120             | Yellow | P          |
| Meadowsweet ( <i>Filipendula ulmaria</i> )                      | July - Aug     | 120             | White  | P          |
| Musk Mallow ( <i>Malva moschata</i> )                           | July - Aug     | 100             | Pink   | P          |
| Oxeye Daisy ( <i>Leucanthemum vulgare</i> )                     | May - July     | 90              | White  | P          |
| Perforate St John's Wort ( <i>Hypericum perforatum</i> )        | June - Aug     | 150             | Yellow | P          |
| Purple Loosetrife ( <i>Lythrum salicaria</i> )                  | June - Aug     | 200             | Purple | P          |
| Ragged Robin ( <i>Silene flos-cuculi</i> )                      | June - Aug     | 100             | Pink   | P          |
| Red Campion ( <i>Silene dioica</i> )                            | Apr - July     | 100             | Pink   | P          |
| Ribwort Plantain ( <i>Plantago lanceolata</i> )                 | Apr - Oct      | 90              | White  | P          |
| Rough Hawkbit ( <i>Leontodon hispidus</i> )                     | June - Sept    | 50              | Yellow | P          |
| Sainfoin ( <i>Onobrychis vicifolia</i> )                        | June - Aug     | 80              | Pink   | P          |
| Salad Burnet ( <i>Sanguisorba minor</i> )                       | June - Aug     | 65              | Red    | P          |
| Self Heal ( <i>Prunella vulgaris</i> )                          | May - Sept     | 30              | Purple | P          |
| Small Scabious ( <i>Scabiosa columbaria</i> )                   | June - Oct     | 70              | Purple | P          |
| Tufted Vetch ( <i>Vicia cracca</i> )                            | June - Aug     | 120             | Purple | P          |
| Water Avens ( <i>Geum rivale</i> )                              | June - Sept    | 50              | Pink   | P          |
| White Campion ( <i>Silene latifolia</i> )                       | May - Sept     | 100             | White  | SLP        |
| Wild Carrot ( <i>Daucus carota</i> )                            | June - Oct     | 150             | White  | P          |
| Wild Marjoram ( <i>Origanum vulgare</i> )                       | June - Aug     | 100             | Pink   | P          |
| Wild Red Clover ( <i>Trifolium pratense</i> )                   | May - Sept     | 50              | Pink   | P          |
| Yarrow ( <i>Achillea millefolium</i> )                          | June - Aug     | 90              | White  | P          |
| Yellow Rattle ( <i>Rhinanthus minor</i> )                       | May - July     | 50              | Yellow | SLP        |

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# Species List

| Species  | Flowering Time | Ultimate Height | Colour | Life Cycle |
|--|----------------|-----------------|--------|------------|
| <b>Grasses</b>   |                |                 |        |            |
| Annual Meadow Grass ( <i>Poa annua</i> )                       | Year-round     | 30              |        | A          |
| Crested Dog's-tail ( <i>Cynosurus cristatus</i> )              | June - Aug     | 75              |        | SLP        |
| Sheep's Fescue ( <i>Festuca ovina</i> )                        | May - June     | 30              |        | P          |
| Slender Creeping Red Fescue ( <i>Festuca rubra litoralis</i> ) | June - July    | 50              |        | P          |
| Smooth Stalked Meadow Grass ( <i>Poa pratensis</i> )           | May - June     | 70              |        | P          |
| Sweet Vernal ( <i>Anthoxanum odoratum</i> )                    | May - June     | 70              |        | SLP        |
| Yellow Oat Grass ( <i>Trisetum flavescens</i> )                | June - July    | 60              |        | P          |

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# Biodiversity Net Gain (BNG) Projects

## Time to Target Condition

Meadowscape Pro™ can provide a quicker method of establishing habitats than using seed alone. This can improve 'Time to Target Condition' as the habitat is usually mature within 12-18 months.

## BNG Habitat & Condition Assessment

The below information is subject to ecologist & LPA approval/report and is dependent on [installation guide](#) and [maintenance instructions](#) provided by Wildflower Co. being correctly followed.

| What BNG habitat can SuDS create?                                 |                |                    |                         |
|---|----------------|--------------------|-------------------------|
|   | Lowland Meadow | Lowland Calcareous | Other Neutral Grassland |
| No of indicator species   | 16             | 19                 | N/A                     |
| Condition on installation   | Poor           | Poor               | Poor                    |
| Condition at 5 years <i>(providing management plan followed)</i>  | Good           | Good               | Good                    |
| Condition at 30 years <i>(providing management plan followed)</i> | Good           | Good               | Good                    |

## Ensuring Success - Consultancy and Handover

[Our consultancy offers](#) several options for ensuring long term success of wildflower installations. High value projects will benefit from early advice on the practicalities of planning, establishment, handover and long-term maintenance, verifying products meet specifications and objectives for wildflower habitat creation. We can also ensure the installation and maintenance contractor understands specification, product and maintenance requirements at any stage of the project. This is particularly valuable at site handover, in advance of maintenance work or where contracts and/or contractors change during the lifetime of the project.

An Installation Certificate can be provided upon installation as part of some consultancy packages to certify that the product has been installed correctly.

[View consultancy and BNG consultancy packages here.](#)

# Preparation and installation

## Management plan for long-term success

### Soil preparation

Do NOT rotovate, dig or disturb the soil. The existing vegetation should be killed or removed. If spraying off the area, this should be conducted according to the chemical manufacturer's instructions a minimum of 2 weeks before installation of the Meadowscape Pro™. If there is a residue of more than a light covering of dead surface vegetation after two weeks then this needs to be cut and removed. This is necessary otherwise Meadowscape Pro™ will be suspended on the dead thatch above the soil surface, preventing good seed germination and successful seedling growth. Meadowscape Pro™ can also be laid on sterile imported soil, but if so the soil needs to be levelled for a smooth finish and for ease of laying product.

### Soil conditions and fertility

Ensure soil is not waterlogged or compacted prior to installing Meadowscape Pro™. The soil does not need to be fertilised before or after the installation. We would advise not stripping back the top soil to reduce soil fertility before using Meadowscape Pro™ as it needs some level of fertility to get well-established initially and is an unnecessary ground preparation step. However, where soil is fertile, particular attention must be paid to the maintenance regime – see maintenance section.

### Laying Meadowscape Pro™

When laying Meadowscape Pro™, care should be taken to ensure a uniform depth of 20 – 25mm is laid. Do not over or under apply the material. Over application results in an imbalance of seed and nutrient ratios for a given area creating too much competition between the plants. Under applying will create a thin layer of seeded material creating sparser and poorer germination results whilst also limiting Meadowscape Pro™'s ability to suppress weed seeds in the surface of the soil beneath.

### Watering

Once laid, water the area thoroughly, for the first few weeks until a seedling sward starts to appear– this could take up to 4-6 weeks (weather dependent). There is no need to soak the soil before laying but it is important to check that the initial watering soaks through the entire dressing of the growing medium and ideally into the soil beneath. Do this by scratching the growing medium during watering to assess sufficient water uptake. Once the Meadowscape Pro™ is wet through, stop watering – excessive watering will lead to run off and erosion of the material. Do not allow the profile of the Meadowscape Pro™ to dry out while the seeds establish, it needs to be damp – this is very important. Depending on the time of year, seedlings will emerge in the first few weeks and these plants will develop rapidly as a result of the perfect growing conditions the Meadowscape Pro™ provides.

### BNG considerations

To ensure condition assessment criteria are met, ensure cover of bare ground is between 1-5% and weed species such as bracken, bramble, thistle, dock, nettle, creeping buttercup, greater plantain, white clover and cow parsley are completely removed prior to installation. A post installation management plan must also be in place to ensure longevity of the habitat - see maintenance plan.

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# Maintenance

## Management plan for long term success

### Fertiliser

No fertiliser is needed, although in some circumstances, for example where the wildflower installation is on very low fertility soil such as sand or gravel, the addition of a light dose of fertiliser in the spring may improve plant development. Please contact Wildflower Co. for guidance.

### Annual Maintenance

Once established Meadowscape Pro™ requires little maintenance. For the annual maintenance cut in the autumn, it is important to cut the meadow down to 2-3 inches (50-75mm) off the ground and remove all cuttings. This can be done by strimming and raking, or using a mower and collecting the cuttings. Make sure these tools are sharp. The cut is an important part of the meadows life cycle and ensures that re-growth and species diversity improves year on year. Cuttings should not be left on the meadow, as they add undesirable fertility to the ground. It is also important to remove all leaf litter that falls onto the area.

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### Timing the cut

The annual maintenance cut should be done in late September, early October. There is no need for a set date, but this timing will allow the plants in the meadow to regenerate before the first frost typically in November. You can choose to cut only half of the meadow area at one time to allow time for fauna to migrate to the uncut meadow. Allow some regrowth of the cut area before cutting the second half, but aim to have finished all cutting by the end of the first week of October. Over time alternate the areas that are cut early and the areas that are left as this will benefit species diversity.

### Managing the fertility in the ground

On fertile sites or where you might have species dominance or too vigorous early growth, a second cut at the end of May, beginning of June can be introduced.

This high cut, approximately 8 to 10 inches off the ground (200mm to 250mm) to remove the flower heads but leaving enough plant stems and leaf area to regenerate, and removal of all cuttings, will help to knock back some species dominance, reduce soil fertility and open up the sward to more light and air circulation to promote diversity of lower growing species. Once the cutting has been completed and all cuttings removed, give the area a good soaking with water to encourage the next flush of growth. Introducing this early summer cut and removal will mean your second autumn cut and removal will be later that year, up to the end of October.