SURESET RESIN

PAVING THE WAY SINCE 1997



Specification guide

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Contents

Base preparation	3
What you need to know about Permeable Specifications	4
Permeable (SuDS) Pedestrian External Surfacing Specifications	5
Permeable (SuDS) Vehicular External Surfacing Specifications	9
Permeable (SuDS) Tree Surround External Surfacing Specifications	13
Permeable (SuDS) Podium Roof Deck Specifications	15
Permeable (SuDS) FlexiSet Paving Specifications	17
What you need to know about Impermeable Specifications	22
Impermeable Pedestrian External Surfacing Specifications	23
Impermeable Vehicular External Surfacing Specifications	27
Surface Maintenance	30





Base preparation

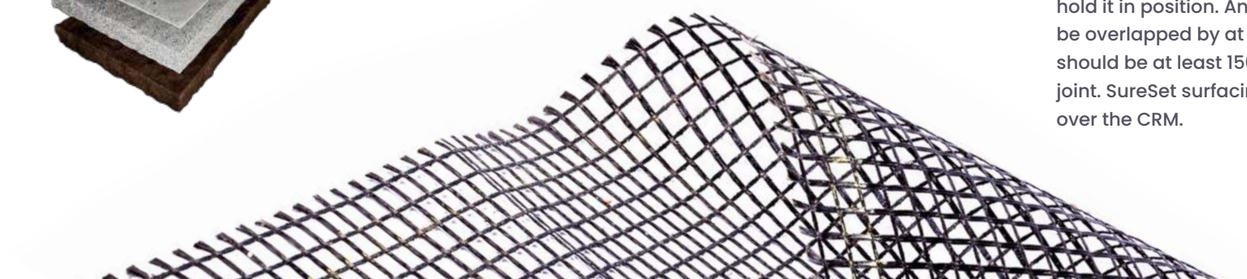
Resin bound paving can be laid on existing or new surfaces, but the preparation can be very similar. All surfaces should be stable and suitable for the expected use. If laying on adjoining surfaces or surfaces with minor cracks a Crack Reduction Membrane should be used. If installing on a concrete surface a PU Primer should be applied.

CRM Crack Reduction Membrane

Crack Reduction Membrane (CRM) is used on asphalt, concrete and other compacted base types to successfully control distortion due to movement in sub-bases and to help reduce reflective cracking in resin bound overlays. CRM is an exceptionally strong geosynthetic reinforcing mat. It consists of glass fibre strands, arranged in a grid structure, covered, and impregnated with a polymer adhesive.

Application

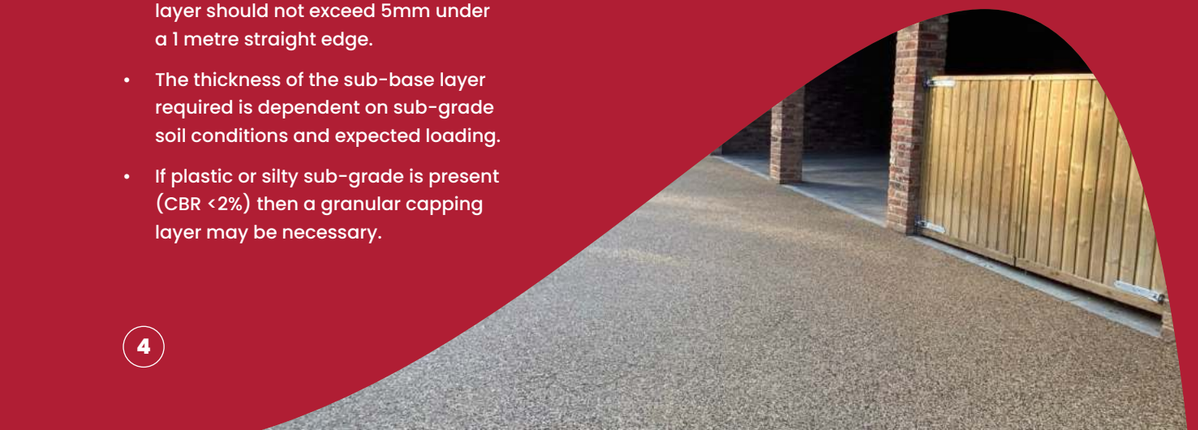
The CRM can be either laid over the complete surface or just applied in strips along existing cracks/joints depending on the assessment of the condition of the surface. CRM is applied directly to a clean and dry asphalt or concrete surface and pressure applied underfoot or with a small roller so that it adheres in place. Concrete surfaces should be primed, and the CRM then applied. On unbound surfaces the CRM may need to be pinned or weighted to hold it in position. Any joints in the CRM should be overlapped by at least 150mm and widths should be at least 150mm either side of a crack/joint. SureSet surfacing is then applied as normal over the CRM.



What you need to know about Permeable (SuDS) Specifications

Notes

- SureSet can be laid onto existing sound asphalt or concrete surfaces of suitable construction for the traffic expected.
- SureSet surfaces are designed to be used by normal expected levels of pedestrian or vehicular traffic.
- Areas that are trafficked by heavy vehicles should be designed to avoid repeated and frequent slow speed manoeuvring across the surface.
- Protection should be provided wherever possible against abnormal usage.
- Movement joints/construction joints in concrete should be extended up to the surface of the SureSet. Cracks should be broken out if necessary and filled with a polymer/cement crack filling material.
- Appropriate edge restraints required.
- It is recommended that all concrete bases are primed with SureSet primer prior to installation.
- Areas that may be trafficked by light and heavy vehicles should have structural layers designed according to Highways Agency requirements.
- The maximum deviation of the binder course should not exceed 3mm under a 1 metre straight edge.
- The maximum deviation of the sub-base layer should not exceed 5mm under a 1 metre straight edge.
- The thickness of the sub-base layer required is dependent on sub-grade soil conditions and expected loading.
- If plastic or silty sub-grade is present (CBR <2%) then a granular capping layer may be necessary.
- Any sub-base should be laid in a damp condition shaped and regulated where necessary and soft spots removed. Compact using multiple passes of a vibrating plate compactor or suitable vibrating roller.
- SureSet can overlay onto existing soil of an established tree, providing the soil is free draining.
- Base layers to be laid by others in well compacted layers to a minimum fall of 1.5% (1:66) and complying with the minimum regulatory and design level requirements.
- SureCell should be infilled with 4/10mm crushed aggregate with surcharge prior to compaction. Appropriate compaction using multiple passes of a vibrating plate compactor or suitably sized vibratory roller should be carried out until the granular material is flush with the top of the SureCell. If extra granular material is required, add more, then compact until the infill is flush with the top of the SureCell.





Permeable (SuDS)

Pedestrian External Surfacing Specifications

External paving surfaces need to meet specific criteria to ensure durability, accessibility, and aesthetic appeal. The specification can vary depending on the expected foot traffic, local regulations, and environmental conditions.

Permeable (SuDS) Pedestrian External Surfacing Specifications

Light Pedestrian Use

1. SureSet SuDS surface

30mm minimum depth of maximum size 6mm resin bound gravel, or 40mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Sub-base

75-100mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregates to BS EN 12620.

3. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

4. Capping/Improvement layer

If required, in one or more layers.

5. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for woodland and garden paths aswell as patios.

Pedestrian Use - SureCell Alternative

1. SureSet SuDS surface

24mm minimum depth of maximum size 3mm resin bound gravel, or 24mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. SureCell

52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

3. Sub-base

75 minimum depth of well compacted Type 3 granular sub-base to SHW clause 805, or 4/40mm, 4/20mm crushed aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12 620.

4. Membrane

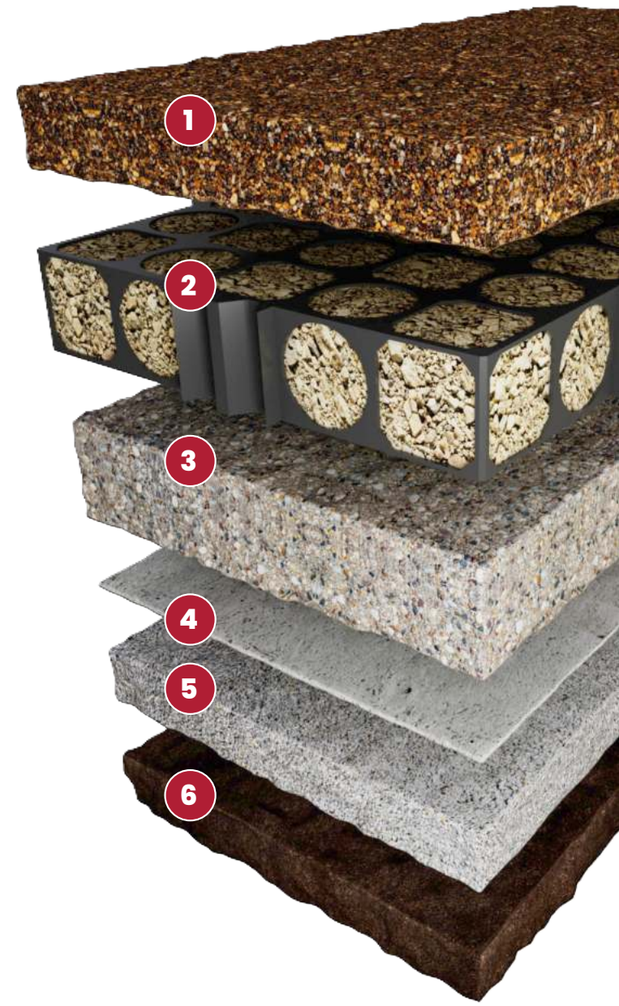
An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for pathways, patios, and pool surrounds.

Permeable (SuDS) Pedestrian External Surfacing Specifications

Public Pedestrian Use

1. SureSet SuDS surface

16mm minimum depth of maximum size 3mm resin bound gravel, or 18mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

70mm minimum depth of maximum size AC 10 open graded asphalt. Max 100/150 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Sub-base

175mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12620.

4. Membrane

An impermeable membrane to convey water to retention/ detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for courtyards, town centres, pathways, pool surrounds and occasional maintenance vehicles.



Permeable (SuDS)

Vehicular External Surfacing Specifications

Designing vehicular surfaces involves several key considerations to ensure safety, durability, and aesthetic appeal. Adhering to these specifications helps in creating vehicular surfaces that are safe, durable, and efficient for their intended use.

Permeable (SuDS) Vehicular External Surfacing Specifications

Light Vehicular Use

1. SureSet SuDS surface

16mm minimum depth of maximum size 3mm resin bound gravel, or 18mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

70mm minimum depth of maximum size AC 10 open graded asphalt. Max 100/150 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Sub-base

175mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm,4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12620.

4. Membrane

An impermeable membrane to convey water to retention/ detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for driveways, courtyards town centres and occasional maintenance vehicles.

Vehicular Use - SureCell Alternative

1. SureSet SuDS surface

24mm minimum depth of maximum size 3mm resin bound gravel, or 24mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. SureCell

52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

3. Sub-base

150mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805, or 4/40mm, 4/20mm crushed aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12 620.

4. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for driveways and courtyards.

Permeable (SuDS) Vehicular External Surfacing Specifications

Heavy Vehicular Use



1. SureSet SuDS surface

18mm minimum depth of maximum size 3mm resin bound gravel, or 20mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

40mm minimum depth of maximum size AC 10 open graded asphalt. Max 100/150 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Road base

100mm minimum depth of maximum AC 20mm open bin asphalt concrete max 100/150 pen to BS EN13108:2006 (Bituminous Macadam) or BBA approved polymer modified binder).

4. Sub-base

300-650mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12620.

5. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

6. Capping/Improvement layer

If required, in one or more layers.

7. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.

SuDS suitable for access roads and car parks. For use up to approximately 7.5* tonne gross vehicle weight or similar weight vehicle.

*Heavier vehicle specifications available on request



Permeable (SuDS)

Tree Surround External Surfacing Specifications

Creating a proper paving surround for trees involves considering both aesthetic and functional aspects to ensure the tree's health and the durability of the paved area.

Permeable (SuDS) Tree Surround External Surfacing Specifications

Tree Surround

1. SureSet SuDS surface

24-30mm minimum depth of maximum size 6mm resin bound gravel, or 40mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

Choose 1 of 3 base options below

2a. SureCell

52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

2b. Tree sand

Well compacted layers to arborist's specification.

2c. Granular sub-base

150mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm blinded with 2/6.3mm crushed stone graded
concrete aggregate. BS EN12620.

3. Membrane

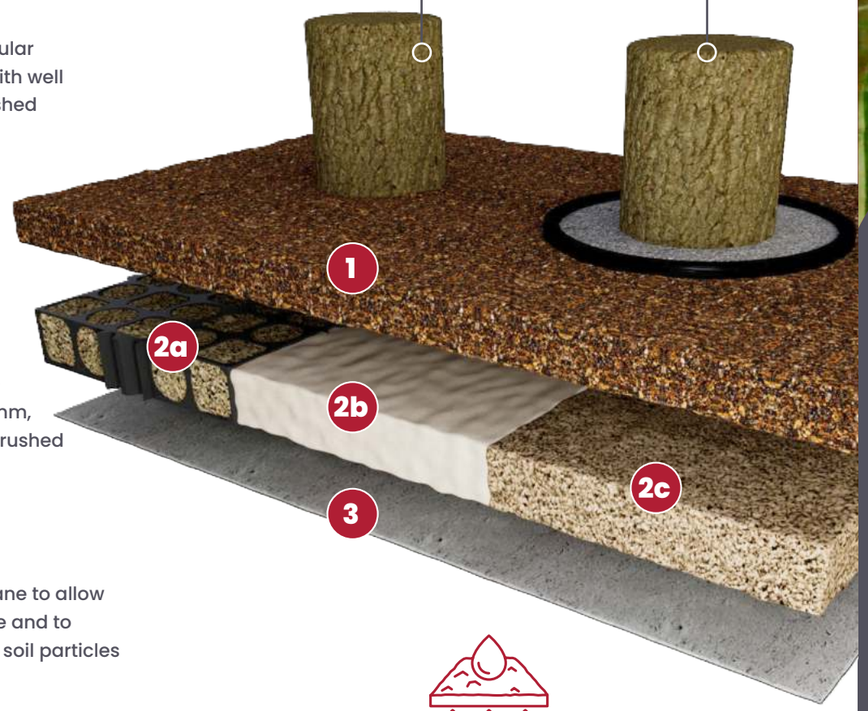
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

No Tree Collar

Installed by SureSet. Resin bound laid in close proximity to tree trunk, formulated to provide a weakened sacrificial zone to allow for tree growth.

Tree Collar

Installed by others. Temporary or permanent collar formed from plastic strip, land-drain pipe, wood etc. as appropriate. Allow 50mm minimum clearance around trunk.



SureSet can overlay onto existing soil of an established tree, providing the soil is free draining.



Permeable (SuDS)

Podium Roof Deck Specifications

Creating a specification for podium roof decks involve several key elements such as the correct substrate, structure and drainage points. Specific project requirements and local regulations need to be taken into consideration.

Permeable (SuDS) Podium Roof Deck Specifications

Podium Roof Deck

1. SureSet SuDS surface

24mm minimum depth of maximum size 3mm resin bound gravel, or 24mm minimum depth of maximum size 6mm resin bound gravel.

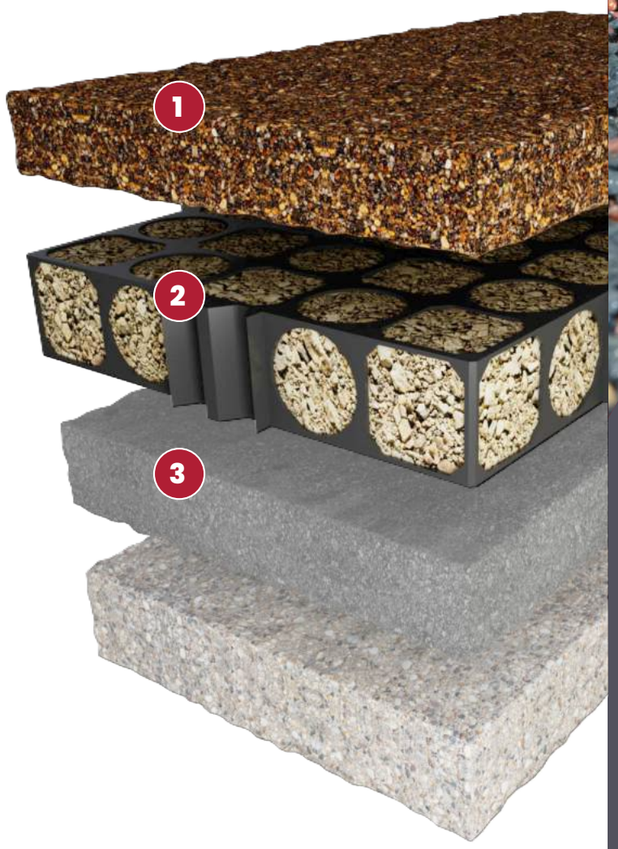
Fine grit is lightly cast onto an uncured surface.

2. Sub-base

52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

3. Sub-base and Concrete deck

Both have varying requirements and should be installed by others to a podium roof engineers specification.



Note

The 24mm depth 6mm SureSet layer combined with the 52mm SureCell layer has been tested as a system to Broof (t4) certification.

This build-up did not include any underlying layers and any full system inclusive of all the layers will need to be designed by an engineer and will require approval by Building Regulation or an appropriate authority on a case by case basis.

SuDS suitable for roof courtyards, pathways, and pool surrounds.



Permeable (SuDS)

FlexiSet Paving Specifications

FlexiSet is made using 50% recycled rubber and 50% 6mm natural aggregate which is bound together using our high quality UV resin. The surface material delivers a rustic looking surface, this makes it ideal for woodland trails, jogging paths, pedestrian areas, cycle tracks, equestrian areas, drainage channels, roof gardens and tree pits.

FlexiSet is a sustainable, lightweight, fully permeable surface allowing water to fully drain through.

Permeable (SuDS) FlexiSet Paving Specifications

Light Pedestrian Use

1. SureSet SuDS surface

35mm minimum depth of maximum size 6mm resin bound rubber/gravel, or 50mm minimum depth of maximum size 10mm resin bound rubber/gravel.

Fine grit is lightly cast onto an uncured surface.

2. Sub-base

150mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS En12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12620.

3. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

4. Capping/Improvement layer

If required, in one or more layers.

5. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for woodland, garden paths and patios.

Pedestrian Use - SureCell Alternative

1. SureSet SuDS surface

24mm minimum depth of maximum size 6mm resin bound rubber/gravel, or 40mm minimum depth of maximum size 10mm resin bound rubber/gravel.

Fine grit is lightly cast onto an uncured surface.

2. SureCell

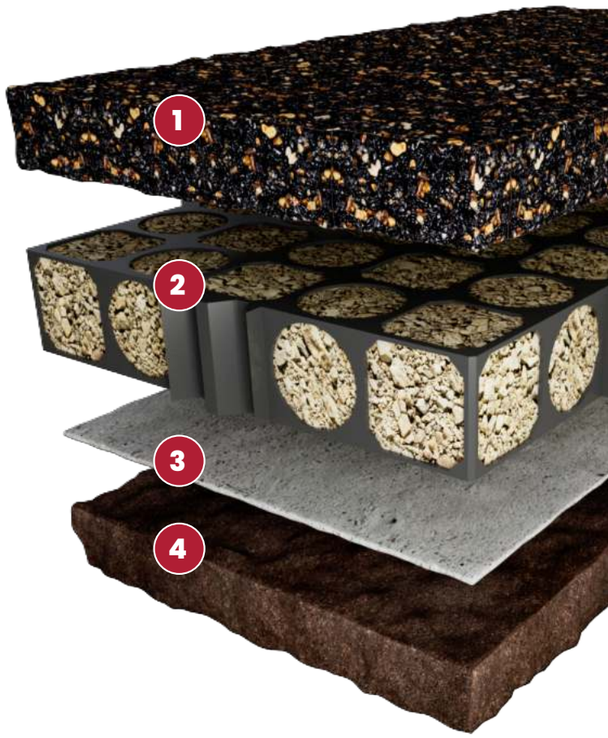
52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

3. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

4. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for patios, courtyards, town centres, pathways, and pool surrounds.

Permeable (SuDS) FlexiSet Paving Specifications

Public Pedestrian Use

1. SureSet SuDS surface

22mm minimum depth of maximum size 6mm resin bound rubber/gravel, or 50mm minimum depth of maximum size 10mm resin bound rubber/gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

70mm minimum depth of maximum size AC 10 open graded asphalt. Max 100/150 pen to BS EN 13108-1:2006 (Bituminous Macadam).

3. Sub-base

150mm minimum depth of well compacted Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the above specification blinded with 2/6.3mm graded crushed concrete aggregate to BS EN12620.

4. Membrane

An impermeable membrane to convey water to retention/ detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



SuDS suitable for courtyards, town centres, pathways, and pool surrounds.

Tree surround

1. SureSet SuDS surface

30mm minimum depth of maximum size 6mm resin bound rubber/gravel, or 50mm minimum depth of maximum size 10mm resin bound rubber/gravel.

Fine grit is lightly cast onto an uncured surface.

Choose 1 of 3 base options below

2a. SureCell

52mm depth fully connected cellular reinforcement structure infilled with well compacted 4/10mm graded crushed aggregate to BS EN12620.

2b. Tree sand

Laid by others in well compacted layers to arborist's specification.

2c. Granular sub-base

150mm minimum depth of well compacted Type 3 granular sub base to SHW clause 805 or 4/40mm, 4/20mm blinded with 2/6.3mm crushed stone graded concrete aggregate. BS EN12620.

3. Membrane

A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

No Tree Collar

Installed by SureSet. Resin bound laid in close proximity to tree trunk, formulated to provide a weakened sacrificial zone to allow for tree growth.

Tree Collar

Installed by others. Temporary or permanent collar formed from plastic strip, land-drain pipe, wood etc. as appropriate. Allow 50mm minimum clearance around trunk.

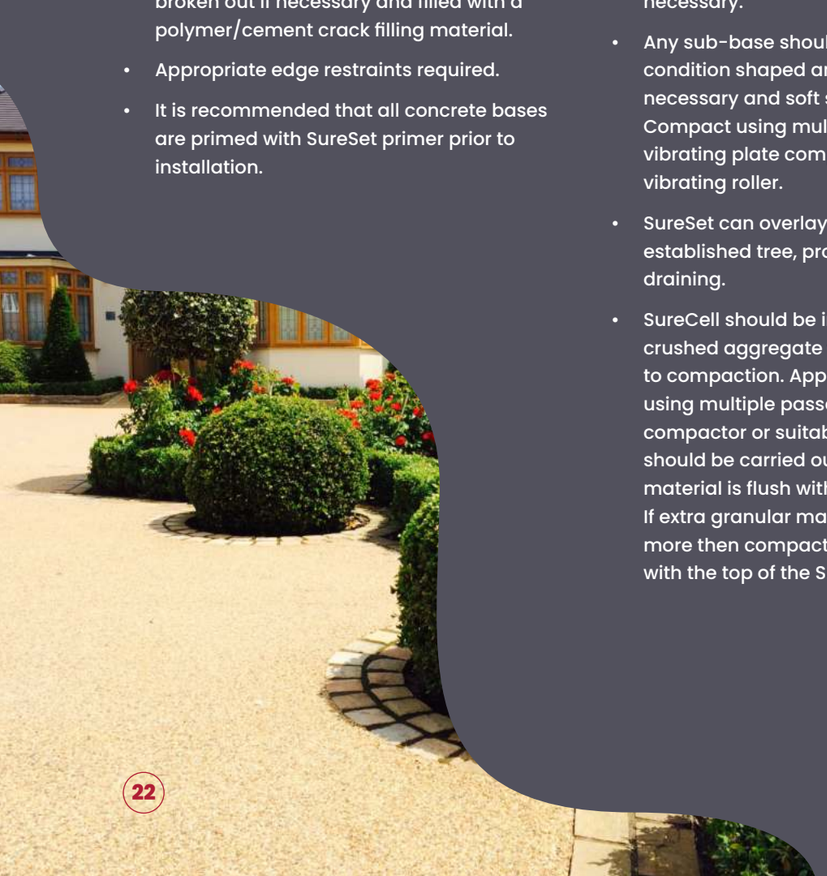


SureSet can overlay onto existing soil of an established tree, providing the soil is free draining.

What you need to know about Impermeable Specifications

Notes

- SureSet can be laid onto existing sound asphalt or concrete surfaces of suitable construction for the traffic expected.
- SureSet surfaces are designed to be used by normal expected levels of pedestrian or vehicular traffic.
- Areas that are trafficked by heavy vehicles should be designed to avoid repeated and frequent slow speed manoeuvring across the surface.
- Protection should be provided wherever possible against abnormal usage.
- Movement joints/construction joints in concrete should be extended up to the surface of the SureSet. Cracks should be broken out if necessary and filled with a polymer/cement crack filling material.
- Appropriate edge restraints required.
- It is recommended that all concrete bases are primed with SureSet primer prior to installation.
- Areas that may be trafficked by light and heavy vehicles should have structural layers designed according to Highways Agency requirements.
- The maximum deviation of the binder course should not exceed 3mm under a 1 metre straight edge.
- The maximum deviation of the sub-base layer should not exceed 5mm under a 1 metre straight edge.
- The thickness of the sub-base layer required is dependent on sub-grade soil conditions and expected loading.
- If plastic or silty sub-grade is present (CBR <2%) then a granular capping layer may be necessary.
- Any sub-base should be laid in a damp condition shaped and regulated where necessary and soft spots removed. Compact using multiple passes of a vibrating plate compactor or suitable vibrating roller.
- SureSet can overlay onto existing soil of an established tree, providing the soil is free draining.
- SureCell should be infilled with 4/10mm crushed aggregate with surcharge prior to compaction. Appropriate compaction using multiple passes of a vibrating plate compactor or suitably sized vibratory roller should be carried out until the granular material is flush with the top of the SureCell. If extra granular material is required add more then compact until the infill is flush with the top of the SureCell.







Impermeable

Pedestrian External Surfacing Specifications

Creating a specification for impermeable paving involves detailing the materials, design, installation procedures, and performance requirements to ensure the paving effectively prevents water penetration.

Impermeable Pedestrian External Surfacing Specifications

Rural Pedestrian Use

1. SureSet SuDS surface

30mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Sub-base

75-100mm minimum depth of well compacted non-frost susceptible Type 1 granular sub-base to SHW clause 803 or locally available secondary or recycled aggregates which comply with the requirements of The Specification of Highways Works for sub-bases blinded with a 0/4mm crushed rock dust well vibrated into the Capping/Improvement layer surface.

3. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

4. Capping/Improvement layer

If required, in one or more layers.

5. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



Suitable for woodland, garden paths and patios.

Public Pedestrian Use

1. SureSet SuDS surface

16mm minimum depth of maximum size 3mm resin bound gravel, or 18mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

50mm minimum depth of maximum size AC 14 close graded asphalt. Max 100/220 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Sub-base

150mm minimum depth of well compacted non-frost susceptible Type 1 granular sub-base to SHW clause 803, or locally available secondary or recycled aggregates which comply with the requirements of The Specification for Highways Works for sub-bases. Blinded with a 0/4mm crushed rock dust well vibrated.

4. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



Suitable for courtyards, town centres, pathways, pool surrounds and occasional maintenance vehicles.

Impermeable Pedestrian External Surfacing Specifications

Pool Surrounds

1. SureSet surface

12mm minimum depth of maximum size 3mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Crack reduction membrane

To reduce possibility of cracks propagating up from the base.

3. SureSet Primer

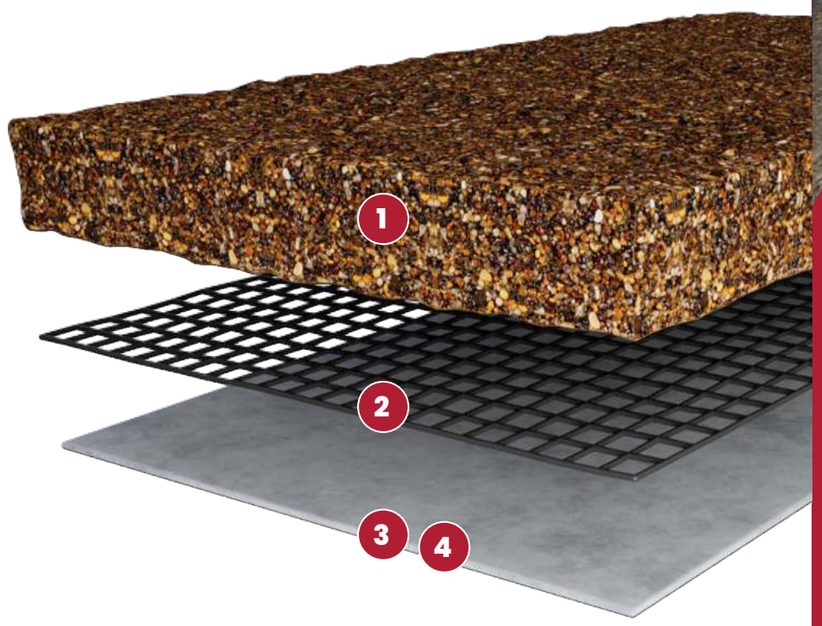
4. Concrete base

A 100mm minimum depth of PAV1-designated fibre-reinforced concrete to BS 8500 to a minimum fall of 1.5% (1:66) to drainage and in accordance with design requirements or as specified by the engineer.

Tamped and lightly brushed finish. New concrete should be left to cure for at least 7 days and primed with a polymer primer.

Existing Pool Tiles

- Must be well cleaned and secure.
- Recessed grout lines to be filled.
- Porcelain and glazed tiles to be sanded to a matt finish to provide a key for priming



Suitable for courtyards, town centres, pathways, pool surrounds and occasional maintenance vehicles.



Impermeable

Vehicular External Surfacing Specifications

A detailed specification for impermeable vehicular surfacing involves outlining the materials, design, installation procedures, and performance standards to ensure the paving can withstand vehicular traffic while preventing water infiltration.

Knowledge. Experience. Innovation.

Impermeable Vehicular External Surfacing Specifications

Light Vehicular Use

1. SureSet SuDS surface

16mm minimum depth of maximum size 3mm resin bound gravel, or 18mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

50mm minimum depth of maximum size AC 14 close graded asphalt. Max 100/150 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Sub-base

150mm minimum depth of well compacted non frost susceptible Type 1 granular sub-base to SHW clause 803 or locally available secondary or recycled aggregates which comply with the requirement of The Specification for Highways Works for sub-bases. Blinded with 0/4mm crushed rock dust well vibrated into the surface.

4. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

5. Capping/Improvement layer

If required, in one or more layers.

6. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



Suitable for driveways, courtyards, town centres and occasional maintenance vehicles.

Heavy Vehicular Use

1. SureSet SuDS surface

18mm minimum depth of maximum size 3mm resin bound gravel, or 20mm minimum depth of maximum size 6mm resin bound gravel, or 30mm minimum depth of maximum size 10mm resin bound gravel.

Fine grit is lightly cast onto an uncured surface.

2. Asphalt binder course

35mm minimum depth of maximum size AC 10 close graded asphalt. Max 100/150 pen to BS EN13108-1:2006 (Bituminous Macadam) or (recommended BBA approved polymer modified binder).

3. Road base

70mm minimum depth of maximum AC 20mm dense base asphalt concrete max 100/150 pen to BS EN13108:2006 (Bituminous Macadam) or BBA approved polymer modified binder).

4. Sub-base

250-550mm minimum depth of well compacted non frost susceptible Type 1 granular sub-base to SHW clause 803 or locally available secondary or recycled aggregates which comply with the requirements of The Specification for Highways Works for sub-bases. Blinded with 0/4mm crushed rock dust well vibrated into the surface.

5. Membrane

An impermeable membrane to convey water to retention/detention/storage systems.
OR
A geo-textile separation membrane to allow infiltration directly into sub-grade and to prevent upward migration of fine soil particles may be required.

6. Capping/Improvement layer

If required, in one or more layers.

7. Sub-grade

Top soil stripped back until organic and vegetative material has been removed.



Suitable for up to approximately 7.5* tonne gross vehicle weight.

*Heavier vehicle specifications available on request.



Surface Maintenance

Tyre Marks

SureSet surfaces can be marked by tyre residue and bitumen or dirt and dust tracked onto them from other surfaces. Marking can be reduced by avoiding turning ‘on the spot’, and other manoeuvres that cause scuffing of the surface. To clean tyre marks from the surface, use detergent and a stiff broom.

Ice or Frost

The removal of ice or frost from the surface can be achieved by the application of rock salt. The area can also be treated with rock salt prior to cold weather to prevent freezing occurring in the first place. When the weather has returned to normal, (non freezing conditions) the surface should be well rinsed with clean water to remove any traces of the salt.

Washing

Washing can be carried out by hand using a portable cold water pressure washer (typically up to 150 bar rating) for smaller areas, providing care is taken not to damage the SureSet with excessive pressure by holding a lance too close to the surface or with a narrow jet focused on a single spot. Stubborn stains should be removed by lightly scrubbing the affected area with warm water and detergent using a plastic or natural fibre bristle brush.

We would recommend the use of a rotary type patio cleaner over a wand for improved cleaning consistency. For larger areas mechanical brush, pressure washer cleaning can be used provided that precautions are taken to keep the pressure and frequency of application to a minimum whilst being consistent with cleaning of the surface. We would always recommend that the particular method to be used is trialled before extensive use.

For further information on any of the above please contact SureSet Technical Sales on 01985 841180

“SureSet were committed to ensuring that the best-finished product was achieved, on a project where precision was paramount. Professional, helpful and polite throughout, from concept to aftercare.”

SureSet customer

“Every order we have placed with SureSet has been dealt with in a friendly and timely manner. Couple that with a top quality product and fantastic after-care, means we don’t go anywhere else.”

SureSet customer

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If you require any further advice or info, please get in touch:

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