



SHERA

PRODUCT BROCHURE

SHERA™

What is SHERA?

SHERA decking is an ideal choice for residential projects where fire safety is your primary concern.

SHERA is a non-combustible fibre cement deck board that boasts the natural appearance of timber. This hardwearing and low maintenance profile achieves A2-S1, D0 and A1fl ratings, against BS EN 13501-1, making it ideal for balconies, terraces and rooftops on medium to high rise residential schemes.

SHERA meets the latest building regulations and fire safety advice for the UK balcony market, set in 2018.

Table of Contents

What is fibre cement technology?	3
Benefits of SHERA	4
SHERA product range	5
SHERA product range with clip lock system	6
SHERA technical specification	7
SHERA accessories	8
SHERA test results	10
SHERA delivery and storage	11
SHERA installation instructions	12
SHERA maintenance and cleaning	18



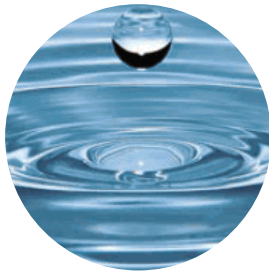
What is fibre cement technology?

Fibre cement construction materials have been around for over 100 years. And the technology to create better fibre cement products has been improving ever since.

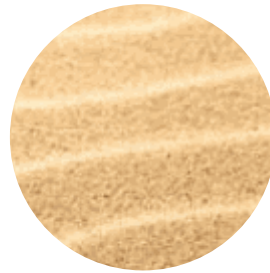
Fibre cement products are composed of Portland cement, silica, water and wood pulp and are manufactured using the Hatschek process.



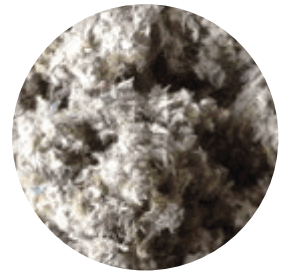
Cement



Water



Sand

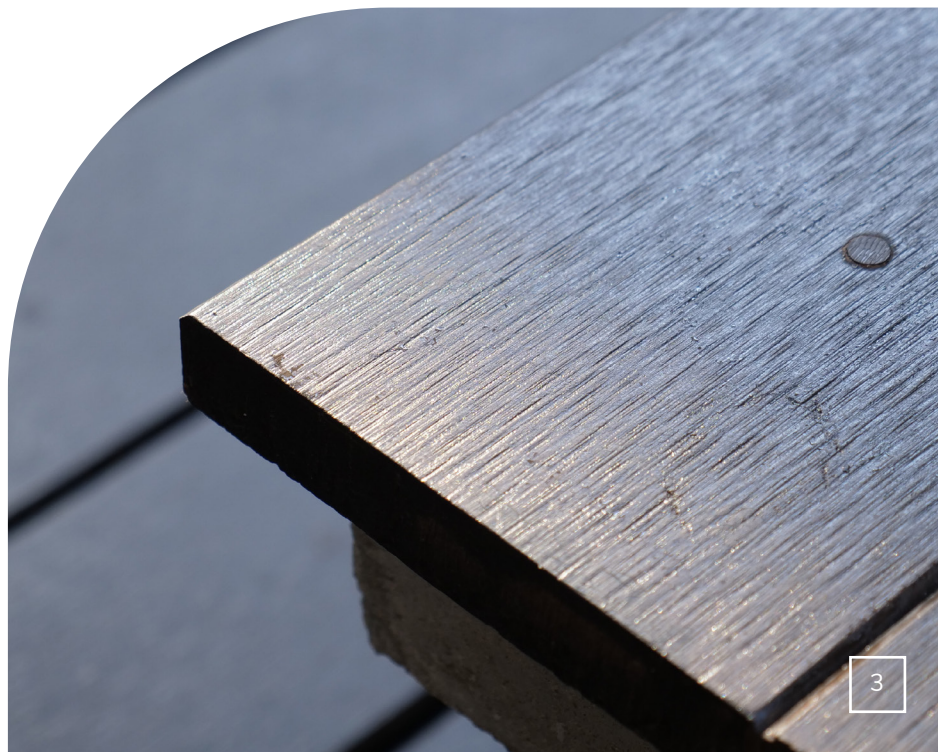


Cellulose Fibre

As part of the Hatschek process, cellulose fibres (from wood) are pulped in warm water. This is then mixed with cement, silica, and other additives. The fibre cement mixture is transferred onto a conveyor belt, then a laminating roll. This process is repeated and multiple layers of fibre cement are laminated to the required thickness.

The laminated fibre cement sheet is cured using an autoclave process. This combines intense heat and pressure to enhance chemical reaction between cement and silica. It forms fibre cement composites, which are extremely tough building materials. The curing process results in fibre cement products with high strength and toughness. The material is also stable, water resistant, non-combustible and easy to work with using standard tools

Colour pigments are added in the process to create decking boards in a choice of four different hardwood tones. These can create an inviting outdoor space which also complies with UK building regulations.



Benefits of SHERA



Non-combustible



Easy to install



Minimal maintenance 50+ years service life



Stable and no warping



Durable



Heat resistant



Frost resistant



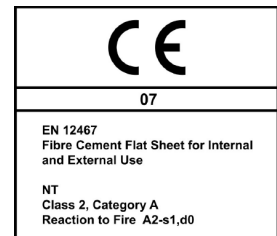
Water resistant



No rotting

SHERA deck boards are CE marked and are suitable for use in building applications where fire regulations require a minimum of A2 rated decking materials such as exterior balconies on high rise buildings.

Other applications include: Exterior wall balconies, exterior decking, roof top decking, pool decking, public space/public walkway decking



SHERA product range



Chestnut Brown



Brown Wenge



Golden Sand Teak



Tropical Oak

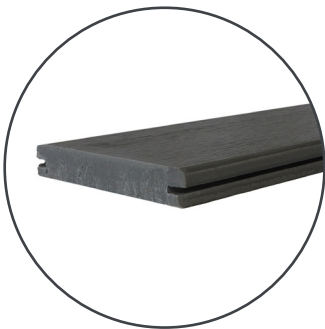
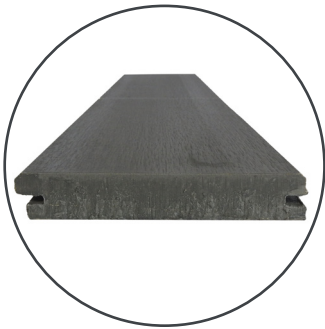
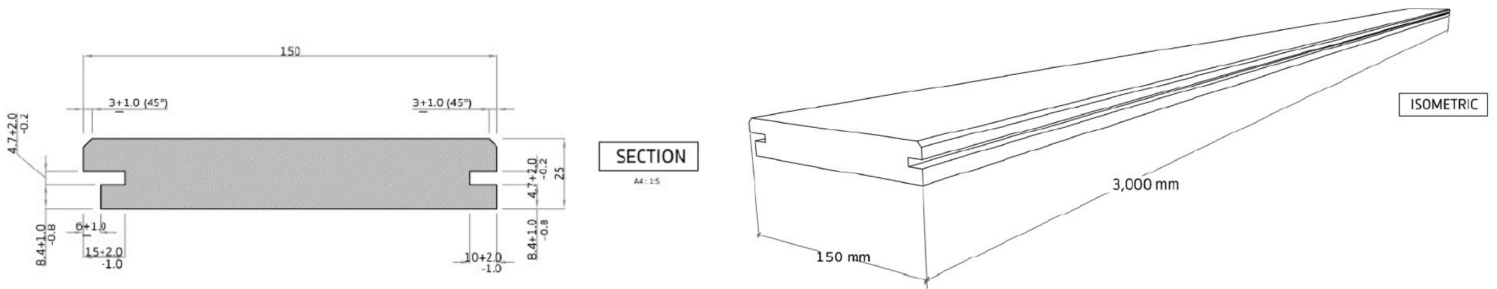


Modern Grey

	Chestnut Brown	Brown Wenge	Golden Sand Teak	Tropical Oak	Modern Grey
Thickness (mm)	25	25	25	25	25
Width (mm)	150 and 200	150 and 200	150 and 200	150 and 200	150
Length (mm)	3000mm only				
Weight (per board)	16.65 kg (150mm width) and 23.25 kg (200mm width)				
Surface Texture	Cassia (timber grain effect)	Straight grain	Straight grain	Straight grain	Straight grain
Attachment	Face fixed	Face fixed	Face fixed	Face fixed	Clip lock system
Availability	Available on request	Kept in stock	Available on request	Available on request	Kept in stock

SHERA product range with clip lock system

SHERA decking boards are now available with a new 'Clip Lock System', which allows you to clip the boards together using a joint insert. The clip lock mechanism eliminates the need for drilling and screwing through the surface of the boards ensuring quick and easy installation and a seamless, beautiful finish.



technical specification

Physical properties	
Thickness tolerance	± 6%
Density	1350 ± 50 kg/m ³
Modulus of rupture	> 7 MPa (wet)
Modulus of elasticity	5500 MPa (wet)
Water absorption	≤ 35%
Moisture content	≤ 12%
Water tightness	Pass
PH value	7-8
Thermal conductivity	0.15 W/mK
Sound protection	30-64dB
Length change by moisture movement	0.04%
Length change due to water absorption	0.19%
Fire resistance properties	
Ignitability	Pass
Fire propagation index	1 = 0
Surface spread of flame	Class 1
Reaction to fire classification	A2s1d0
Combustibility	Non-combustible
Durability properties	
Freeze / thaw resistance	Pass
Warm water resistance	Pass
Heat / rain resistance	Pass
Soak / dry resistance	Pass

SHERA accessories

SHERA Screws



Shera Screw FIX-W45 for frame <4 mm thick Screw to attach SHERA Floor Planks to steel joists.

Specification

Bore Diameter: 3.26mm
Tensile: 5,150N
Shear: 4,250N
Maximum Attachment: 35mm
Drilling Capacity: 3.2m m
Length: 45mm.
Package: 250 pcs/box



Shera Screw FIX-T 1 3/4" Screw to attach SHERA board to timber joists.

Specifications

Bore Diameter: 3.26mm
Tensile: 5,150N
Shear: 4,250N
Maximum Attachment: 37mm
Drilling Capacity: n/a
Length: 45mm.
Package: 250 pcs/box

SHERA Screw Plugs



SHERA Screw Plugs come in the same colours as SHERA decking boards and provide a seamless covering of screw holes when installing SHERA decking.

Package: 250 pcs per box

Metal clips for Clip Lock System



For use specifically with SHERA Clip Lock boards, our metal T-Clips also come with a screw for attaching to the chosen frame joists

Package: 36 pcs per box

Touch Up Paint



SHERA Touch Up Paint is an acrylic paint calibrated to be used with SHERA deck boards. It can be applied to SHERA decking to cover up small surface scratches from normal wear and tear, screw holes, chips and so on.

Package: 0.5l per can.

SHERA accessories

Filler



Although we do not endorse specific brands you can use any high quality epoxy/acrylic cementitious filler to completely cover the screw holes then paint over it with any water based acrylic paint like SHERA Touch Up Paint.

TIP: first paint the boards with a water based primer and then a wood effect stain. This will not show any marks where the filler has been used.

Primer



Acrylic primer used to coat exposed areas of cement fibre boards prior to use of touch up paint.

Diamond blade




Gripsure recommend the use of a polycrystalline diamond saw blade for cutting SHERA cement fibre decking, these can either be used in a crosscut saw or in a smaller skill saw. Either saw should be fitted with a suitable vacuum system to reduce dust levels when cutting.



SHERA

test results

Fire testing has been carried out independently in the UK by Warrington Fire. The full report is available on request.



Please do not be post of @warringtonfire

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Warrington
WA1 2DS

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warringtonfire.com

Title:

CLASSIFICATION OF REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2018.

Product Name:

"Gripsure Shera Decking"

Report No:

WF 514424

Issue No:

1

Prepared for:

Gripsure (UK) Ltd.,
Rockhill Business Park,
Bugle,
Cornwall,
PL26 8RA

Date:

7th March 2022

Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, United Kingdom, WC2E 7HA
Company Registration No: 11371436

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1: 2018, BS EN 15725: 2010 and EN/TS 15117: 2005.

4.2 Classification

The products, "Gripsure Shera Decking", a family of coated cement fibre decking products, in relation to their reaction to fire behaviour are classified:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production		Flaming Droplets
A2	-	s	1	, d 0

i.e. **A2 – s1, d0**

Reaction to fire classification: A2 – s1, d0

SHERA delivery and storage

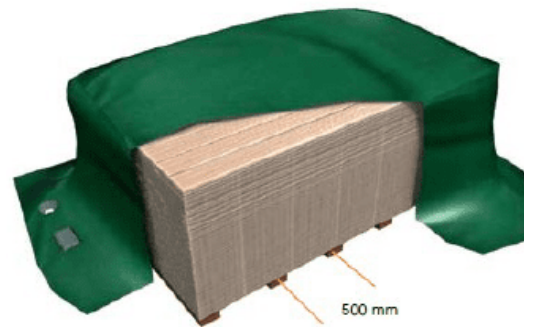
Delivery

Whether it is for a full arctic load, self-unloading vehicles, flatbeds or smaller rigid vehicles we can offer the right solution for you.

We can organise deliveries to a time that suits you, provide any additional paperwork and work to your construction programme. On larger orders we can plan phased deliveries and ensure we have stock on the ground to make sure there are no hold-ups on site.

Storage

We recommend storing SHERA in a shaded, dry and level area. Pallets should be transported using a forklift.



SHERA

installation instructions

Handling

Lifting and lowering SHERA boards

SHERA boards are packaged in pairs. Lift the boards from the stack in an upright position and be careful not to damage ends/edge when lifting and lowering boards.

We strongly recommend carrying each 2 pack of boards between 2 people, one holding each end, with the board in an upright position to avoid unnecessary flexing of the board and to safely distribute the weight.



Handling and carrying SHERA boards

- SHERA deck boards should be handled and carried correctly in order to avoid damage to the painted surfaces and to the edges and corners of the boards.
- Boards should be carried in an upright position to avoid flexing.
- Share the load with another colleague if needed, holding one end each with the board in an upright position.
- Do not install and / or paint boards when they are damp or wet.



TIP:

Efflorescence is a naturally occurring white powdery deposit that can appear on the surface of cement based products. It is the result of a process where moisture draws salt crystals to the surface of the product leaving a chalky substance behind after the water evaporates.

Efflorescence can generally be removed from the surface of SHERA boards using a damp cloth, but for more stubborn marks salt remover can be used.

SHERA

installation instructions

Spans

Shera decking can be installed directly onto steel joists underneath or to aluminum joists running across the structural steel. We recommend the following joist centres for the two different widths that we offer:

25mm thick x 150mm wide boards - 400mm centres
 25mm thick x 200mm wide boards - 500mm centres

Recommended joist centres up to 500mm

Installed with a 3-7mm gap between each row of boards to allow surface run off after rainfall. Boards to be fixed with a stainless steel fixing into steel below. Option to use quick drive system with heads finishing flush with the boards or fixings to be counter sunk with screw plugs sitting on top to provide a secret fix finish. Colour match paint to be used around fixing holes.

Aluminium joists available between 20-50mm

GRIPSURE
keeps you on your feet

Created by Sam Baynham	07/02/2021	Approved by Mike Nicholson	Document status Final revision
Document type Drawing dimensions in mm		Contact: Tel: 01726 844616 info@gripsure.co.uk www.gripsure.co.uk	
Title Gripsure SHERA		Rev	Date of issue
200mm Boards	1	07/02/2021	Sheet 1/1
Installed on Aluminium Joists			

Please see installation videos:
 • Quickdrive system - <https://www.youtube.com/watch?v=fhAt6t6wTKc>
 • Secret fix finish - <https://www.youtube.com/watch?v=cvxZBNjJf0>

SHERA 200m on aluminium joists

Pedestal centres of 600mm. Please contact us for site specific queries.

Boards to butt up with each other across a joist

Recommended joist centres up to 500mm

Installed with a 3-7mm gap between each row of boards to allow surface run off after rainfall. Boards to be fixed with a stainless steel fixing into steel below. Option to use quick drive system with heads finishing flush with the boards or fixings to be counter sunk with screw plugs sitting on top to provide a secret fix finish. Colour match paint to be used around fixing holes.

Aluminium joists fixed to non-combustible pedestals

Aluminium joists available between 20-50mm

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Title Gripsure SHERA		Rev	Date of issue
200mm Boards	1	07/02/2021	Sheet 1/1
Installed on Aluminium Joists on Pedestals			

Please see installation videos:
 • Quickdrive system - <https://www.youtube.com/watch?v=fhAt6t6wTKc>
 • Secret fix finish - <https://www.youtube.com/watch?v=cvxZBNjJf0>

SHERA 200m on aluminium joists using pedestals

SHERA

installation instructions

SHERA Profile

Recommended joist centres up to 500mm

Boards to butt up with each other across a joist

Installed with a 3-7mm gap between each row of boards to allow surface run off after rainfall. Boards to be fixed with a stainless steel fixing into steel below. Option to use quick drive system with heads finishing flush with the boards or fixings to be counter sunk with screw plugs sitting on top to provide a secret fix finish. Colour match paint to be used around fixing holes.

Create a frame with Aluminium joists and fix to existing steel work.

Existing Steel work

Aluminium joists available between 20-50mm

Gripsure SHERA
25x200mm in 3.0 metre lengths
Fibre Cement deck board available in four colours
A2-S1, D0 fire rating against BS EN 13501-1

GRIPSURE
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Document type		Document status	
Drawing dimensions in mm		Final revision	
Title		Contact:	
Gripsure SHERA		Tel: 01726 844616	
200mm Boards		info@gripsure.co.uk	
Installed on Aluminium Joists on Existing Steel		www.gripsure.co.uk	
Rev:	Date of issue	Rev:	Date of issue
1	07/02/2021	1	07/02/2021
		Sheet	1/1

Please see installation videos:
 • Quickdrive system - <https://www.youtube.com/watch?v=hfAt5towTKc>
 • Secret fix finish - <https://www.youtube.com/watch?v=cvxZBNjJfRo>

SHERA 200m direct to steel

SHERA Profile

Boards to butt up with each other across a joist

Installed with a 3-7mm gap between each row of boards to allow surface run off after rainfall. Boards to be fixed with a stainless steel fixing into steel below. Option to use quick drive system with heads finishing flush with the boards or fixings to be counter sunk with screw plugs sitting on top to provide a secret fix finish. Colour match paint to be used around fixing holes.

Existing Steel work

Gripsure SHERA
25x200mm in 3.0 metre lengths
Fibre Cement deck board available in four colours
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Gripsure SHERA		Tel: 01726 844616	
200mm Boards		info@gripsure.co.uk	
Installed Directly into Existing Steel		www.gripsure.co.uk	
Rev:	Date of issue	Rev:	Date of issue
1	07/02/2021	1	07/02/2021
		Sheet	1/1

Please see installation videos:
 • Quickdrive system - <https://www.youtube.com/watch?v=hfAt5towTKc>
 • Secret fix finish - <https://www.youtube.com/watch?v=cvxZBNjJfRo>

SHERA 200m aluminium joist on steel

SHERA

installation instructions

Joist spacing: load bearing data

SHERA decking is designed to be installed correctly using the appropriate frame materials and used with 'normal' levels of uniform loads. Typical load bearing data can be seen below:

SHERA decking boards 25mm thickness	150/200mm					
Span of decking support	300mm	400mm	500mm	600mm	800mm	1000mm
Safety factor: 2.5-Kg/m ²	5.649	3.171	2.024	1.401	782	495

Shera decking boards 25mm thickness – allowable uniform loads. For decking boards width 100/150/200/250/300mm

TIP

If you are not sure of the potential weight loads we recommend a narrower joist spacing, alternatively, feel free to get in touch and we'd be more than happy to assist



SHERA

installation instructions

Tools needed for installation:

- Screw gun
- Circular saw
- Diamond cutter blade
- Protective eye glasses

Installing standard SHERA decking

1. Pre-drill SHERA deck boards 6-7mm deep using an 8mm drill bit. We recommend leaving a gap of 5mm between boards
2. Screw SHERA boards to chosen frame using SHERA FIX-W45 or FIX-T 1 3/4" screws and apply a small amount SHERA Touch Up Paint in the screw hole
3. Insert SHERA Screw Plugs to cover screw heads and knock plugs in gently using a rubber hammer until the surface is flush with the board surface

Installing SHERA decking with Clip Lock System

1. Install SHERA deck board onto chosen frame at a maximum space of 40cm
2. Fix the first SHERA deck board in place 5cm from the edge using SHERA FIX-W45 or FIX-T 1 3/4" screws
3. Fix SHERA Clip to the supporting frame with screw
4. Slide SHERA deck board's groove line firmly into SHERA Clip. Use a rubber hammer to help with proper leveling and positioning
5. Install the next SHERA Clips on the other frames and slide in SHERA deck boards until the last piece
6. Screw the last deck board into place the same as was done for the starting board
7. For a neat finish, apply SHERA Skirt to cover the edge of outer pieces

Installation recommendations and tips

1. Steel frames and joists should be coated with rust proof paint before installation
2. Ensure there is a 3-5mm gap between boards for adequate drainage depending on the type of application and avoid butt joints to increase drainage of excess water
3. Whenever the decking boards need to be cut the cut surfaces should be coated with SHERA Touch Up Paint or an equivalent acrylic water based paint prior to installation to prevent moisture/ water absorption
4. Joist spacing must be calculated by a professional engineer based on the intended

application and estimated loads

5. Use SHERA Plugs to cover the screw heads of the starting and lasting boards
6. Always apply coating on the cross cut surface to prevent moisture absorption.

Attaching SHERA decking to floor joists directly to structural steel

SHERA Decking boards are normally installed onto standard steel floor joists, which are usually 2mm-3mm thickness, or wooden floor joists.

SHERA standard screws and plugs, are designed for use on standard floor joists, so will not be suitable for use on structural steel of more than 3mm thickness. (Consult with your local dealer for additional tips for anything non standard.)

In this application it is best to use a different attachment 'screw' instead, for example a bolt and nut attachment, one that performs the same function as the SHERA screw and SHERA plug and can take the additional stresses involved when attaching the decking boards directly to a structural frame.

Pre-drill holes and place PU into the hole prior to dropping in the bolt, in order to prevent water absorption into the fibre cement.



SHERA

installation instructions

Attachment to steel or wood frames with no substrate

In cases where there is no underlying solid substrate under the floor joists, we recommend a joist span of 300mm or less. Consult an engineer for the construction of the supporting frame to avoid deflection.

Angled structural steel joists

Joists made from angled steel may be subject to deflection. We recommend reinforcing those joists to avoid any deflection along the joist.

Overhang

Avoid any overhang at the ends of the boards if possible. If this is not possible then do not exceed 10cm of overhang.

Staggering

Stagger the board joins for better aesthetics.

Cutting SHERA decking

SHERA deck boards can be cut as required using a normal electric power saw with a diamond blade.

Use of protective eyewear and a face mask is recommended to protect eyes and avoid inhalation of dust whilst cutting SHERA boards.

Before cutting SHERA decking, we recommend you use paper masking tape along the planned cut line to avoid accidental chipping of the edges of the boards due to damaged or substandard cutting blades.

When cutting SHERA decking the cut ends must be fully coated with SHERA Touch Up Paint or an equivalent water based acrylic paint prior to installation.

Drainage

The underlying structure or groundworks should have sufficient gradient to ensure drainage of water.

A gap of 1-3mm should be left between the decking boards to ensure drainage of surface water depending on expected exposure to water.

In humid conditions, in order to prevent build up of moss / algae on the underside of the decking boards. Install

with a suitable gap between the boards to aid water drainage and increase ventilation to ensure the boards are able to dry. In areas with excessive damp/humidity, a minimum of 3mm gap should be allowed in order to aid airflow.

In areas that will experience high/prolonged rainfall or on decking that will be exposed to mud or animals, we recommend regular cleaning and de-clogging of the gaps between decking boards to avoid blockage and aid effective drainage.

Touching up SHERA decking

SHERA Touch Up Paint comes in all of our board colours and can be used to repair any damaged areas. Should a deep scratch appear on your decking due to accidental damage it can be easily filled with acrylic filler, sanded gently to remove excess filler, then painted using SHERA Touch Up Paint.

Apply SHERA Touch Up Paint evenly with a medium sized brush and allow to dry. Apply as many coats as required, refer to the tips below regarding paint ageing.

TIP: Depending on the normal colour ageing of the existing paint, your original paint tone may differ slightly. Stir paint thoroughly before use.

Repainting SHERA decking boards

1. Remove the existing coloured coating and sand with 240-400 grade sandpaper
2. Ensure the surface is completely clean and dry then apply a primer coat using SHERA Super Primer or an equivalent water based primer. Allow a minimum of one hour to dry
3. Apply the first coat of paint using SHERA Decking Paint in the appropriate colour. Allow minimum of two hours for paint to dry
4. Apply the second coat of paint using SHERA Transparent Decking Paint. Allow minimum of two hours for paint to dry
5. Apply final coat of SHERA Top Guard for added scratch resistance.

TIP: In cases where SHERA decking boards are coated by third party paint product apply only 100% acrylic, water-based paint. Solvent, oil, alkaloid paints or semi-transparent stains with acid content are not suitable for application on SHERA decking boards. Refer to coating manufacturer's recommendations.

SHERA maintenance and cleaning

Like any hard landscaping material in an external setting, dust, dirt and debris will accumulate on the boards so we recommend an annual clean to help keep on top of this. Regular sweeping will also help prevent the build up of dust and debris. Other than that, no additional maintenance or specialist cleaning products are required.

Washing

SHERA decking can be washed using warm water and soap with a soft sponge. Cleaning products that contain acid should not be used.

Decking Furniture

We recommend using rubber feet on any decking furniture. Care should be taken when moving furniture,

plant pots or other heavy objects to prevent potential scratching on the deck board surface.

Decking Plants

Use plant pot trays with any decking plants in order to prevent permanent exposure to water / damp / mud.

Drainage

Check the application drainage system and water discharge outlets to ensure continuous water discharge beneath the decking system.

Ensure gaps between decking boards are free from mud, sand or leaves or any other source of blockage that may hinder correct drainage.

Mould

Use a wet cloth or soft brush to remove any mould that may have started growing on the decking boards if your decking has been exposed to moisture for a prolonged period.



Virtually
maintenance
free



GRIPSURE[®]
keeps you on your feet

For further product information, or to discuss any project requirements,
please get in touch at:

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