SYSTEM - Data sheet

pmp SURFACING
THE STANDARD FOR SPECIALIST SURFACING

BOUND MULCH
RUBBER MULCH SURFACING

Bound Mulch is a hard-wearing, flexible safety surface designed to help cushion impact while providing a practical and attractive finish. It combines specialist polyurethane binders with colour-coated SBR rubber to create a durable surfacing solution that balances performance, sustainability and cost-effectiveness.

Applications

Bound Mulch is a versatile system that can be used in a wide variation of applications. With a wide range of colours that allow for bespoke blends to complement any design Superior Impact Absorption and permeability make it ideal for most recreation surfaces both domestic and commercial. The system is widely used in theme parks, private residences, playgrounds, golf courses, holiday parks and walk ways.

Technical Specification and Certification

The table below illustrates values, data and relevant certification. Surface variables will affect the values given. Pay particular attention to the sub-bases used and ensure the correct mixing ratios are followed. Take note of the application conditions and parameters.

TECHNICAL DATA

	Total Surface Thickness (Mulch 40mm Std)	CFH (m) Critical Fall Height Value	Safety BSEN 1177	Permeability EN 12616 : 2013
SPECIFICATION	40	1.3*	Result TBA **	Value TBA **
	50	1.5*	Result TBA **	Value TBA **
	60	1.7*	Result TBA **	Value TBA **
	70	2.1*	Result TBA **	Value TBA **
	90	2.4*	Result TBA **	Value TBA **
	110	2.7*	Result TBA **	Value TBA **
	130	3.0*	Result TBA **	Value TBA **
	The data provided is only valid when using the full specified PMP Surfacing system.			

* Awaiting outcome of test result, the value is predicted and will be confirmed and updated once revived from the testing house.

** Samples submitted for testing, awaiting the values from the test house. A pass will be confirmed and updated once received.

*** Samples submitted for testing, awaiting the values from the test house. The values will be confirmed and updated once received.

Coloured Rubber Mulch Surface

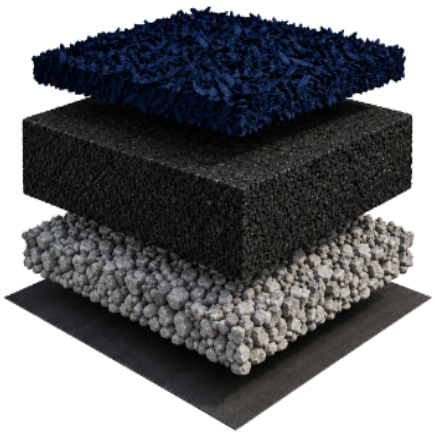
CFH: 1.3m - 3m

40 - 50mm

Black SUB-BASE layer

Depth Variable

minimum 20mm and 90mm



BOUND MULCH
RUBBER MULCH SURFACING

- Application

Application Conditions and Parameters

The system is suitable for the following sub-bases:

Macadam, Concrete, Compacted MOT Stone (Type 1 or 3)

When using nonporous sub-base please ensure adequate drainage is in place prior to installation.

The system comprises of a 2-6mm SBR rubber impact absorbing base layer for depths above 40mm, below 40mm no base layer is required. For surfaces requiring the additional base layer, the thickness ranges between 20mm to 115mm depending on the fall height required. Typically, the binder ratio to SBR rubber for the system is 10% by weight of SBR rubber.

The Polyurethane Binder must be accurately measured and thoroughly mixed in a force action mixer for a minimum of 3-4 minutes before application to ensure all the granules are coated in the binder.

The mixture can then be emptied on to sub-base and a screed bar should be used to level the screed. We recommend the surface is only lightly closed up with a trowel and is not compacted as this will significantly reduce the impact absorption and dramatically reduce the critical fall height.

When installing the Mulch wearing course please ensure a minimum dept of 40mm is achieved or 20mm if the Mulch is a single layer. In both instances a binder ratio of 20& by weight of granules is to be used.

A screed bar should be used to achieve good distribution of material over the base layer which can be finished by hand trowel.

To ensure that the trowel works as efficiently as possible and with less resistance we recommend the use of Supersol; a special formulated release agent that will lubricate tools and act as a barrier between the tool and surfaces. Please ensure that it is applied in a consistent manner in order to avoid aesthetic issues in the finished surface.

.

See next page for the full BOUND MULCH colour range.

Polyurethane binders are moisture curing so it is advised to avoid installing in wet and rainy conditions. For specific cure time information please refer to the individual data sheets for the binder you are using. As a general rule, our products should have a 4-6 hour cure time based on 25°C and 50 relative humidity. A lower temperature will shorten the cure time. In the winter months we advise the use of our special formulated catalyst (Gaz-Cat). This will significantly reduce the core time when installing at lower temperatures. Details on dosage and how to use this are on the catalyst data sheet.

Application Conditions and Parameters

We advise that a regular cleaning program is implanted to keep the surface looking its best. Inspect the surface for signs of damage and avoid high pressure washing, instead mains pressure water is recommended. A stiff brush and a PH neutral detergent should be used for regular cleaning.

Leaves, flowers, pine needles and other organic debris should not be allowed to remain on the surface for length of time. These degrade rapidly and can block the pores of the surface. In turn this promotes a humid breading environment for algae and weeds.

Most stains are easily removed with a warm water and PH neutral detergent, such as washing-up liquid. Heavy oil marks can mostly be removed with a cloth and methylated spirits but as the material is porous it may not be possible to remove them completely.

In periods of snow and ice remove the snow with a brush or rubber scraper. Metal or hard plastics can damage the surfaces. Chemical de-icers and salt should not be used.



BOUND MULCH
RUBBER MULCH SURFACING

- Colour Range


Red


Green


Dark Green


Brown


Blue


Grey


Yellow


Autumn


Earth Tone


Woodland


Jungle Jump


Spring Grass


Redwood

Health and Safety

The system is non hazardous but correct PPE must be used. The use of Isocyanates for commercial use requires professional training. Information on this and courses can be found on the individual component's material safety data sheets.

Packaging

SBR is supplied in 25kg plastic bags, Rubber Mulch is packed in 10kg plastic bags. Polyurethane binders are available in 1090kg industrial bulk containers, 220kg steel drums and 25kg plastic containers.

Used Packaging

Please refer to local authority guidelines in regards to the recycling or disposal of used containers.

Storage

Please ensure all materials are kept covered and dry when on site awaiting installation. When stored for long periods keep inside in dry conditions and preferably out of direct sunlight.

Colours

7 standard PMP Surfacing colours are available. 6 premium colours.

Contact

For technical assistance or to request more information contact PMP Surfacing on: **01226 447292**



PMP Surfacing Ltd
Unit 1, NEXUS, Dodworth,
Barnsley S75 3UD
t: 01226 447292
e: info@pmpsurfacing.co.uk