

REPHOUSE

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INTERLOCKING RUBBER PAVERS

Rephouse's EvoPave™ Interlocking & Safety Blocks

are made in such a way that they are virtually indestructable. The block pavers are made of recycled rubber shred and non-toxic polyurethane binder to make one of the toughest, yet flexible, rubber flooring products available, outlasting many commercial and most other rubber flooring products.

Recommend EvoPave™ Uses are for commercial entrances, golf clubs, weight rooms, ski lodges, equine areas and stalls, veterinary clinics, industrial working areas, amusement parks, recreational areas, garages, exhibition halls, ice rinks, saunas or any place where a flexible floor is needed.

Properties of the EvoPave™ blocks are unique. They are fully elastic, weather proof, water permeable, frost proof, durable and slip resistant. EvoPave™ Colors available are pigmented red or green and plain black.

EvoPave™ Dimensions

Length 200mm

Width 160mm

Coverage 36.36 pcs per m²

THICKNESS

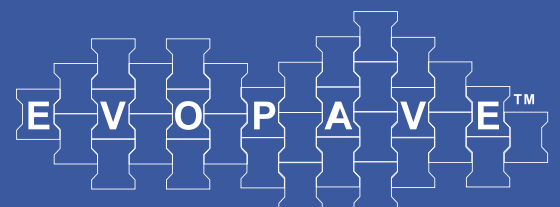
EP15 = 15mm

EP20 = 20mm

EP25 = 25mm

EP45 = 45mm

Maintenance of EvoPave™ is easy by way of general cleaning with a damp mop and is recommended to be done on a regular basis. Heavy soiling can be cleaned by way of a high pressure water hosing.



INSTALLATION OF EVOPAVE™

Installation requires simple tools with common sense planning and skills. EvoPave™ maybe installed onto a prepared concrete, asphalt or crushed rock base.

SUB-SURFACE REQUIREMENTS

DRAINAGE - above grade installation should have a least a 1% fall. For below grade installations, the 1% fall should lead to a drain. Both types of construction must not allow for water accumulation.

SURFACE VARIATION - in any case, this should not exceed 3mm in a 3m span, measured in any direction.

CONCRETE - all cracks and holes must be patched and new concrete should be cured for at least 30 x days before installation. Concrete must be smooth, dry and cleaned of dust, dirt and oil before installation. The recommended method for cleaning for maximum adhesion is by pressure washer. If curing agents were used in the concrete, the surface must be acid etched for maximum adhesion. In all cases, surface must be absolutely dry before installation.

ASPHALT - all cracks and holes must be patched and new asphalt should be cured for at least 14 x days before installation. Asphalt must be smooth, dry and cleaned of dust, dirt and oil before installation. The recommended method for cleaning for maximum adhesion is by pressure washer.

CRUSHED ROCK BASE - should be compacted road type base 100 to 200mm deep (depending on soil conditions) leading to an underground drain. Drainage must be adequate to prevent heaving of surface due to water saturation. The layer above that should be a minimum depth of 35mm of fine sand compacted to 90% dry density. Only 45mm thick pavers can be installed over a crushed rock base. Do not attempt to do this with either a 15mm, 20mm or 25mm thick paver.



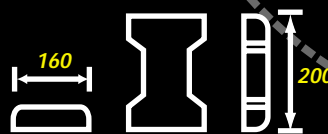
ACTUAL INSTALLATION

Chalk line out onto the prepared base lines in the "North/South" direction and likewise, in the "East/West" direction of the other to be covered with EvoPave™.

By way of a notched trowel (2-3mm notch), apply the adhesive to the base along the area following the "North/South" direction to a width of approximately two or three pavers and do likewise, in the "East/West" direction. You can apply the adhesive in strips. Set the first paver at the corner of the chalk line cross point. Apply a strip of adhesive against a face of the second paver. Set the next paver against the first following the "North/South" chalk line locking the adhesive face of this paver against the first paver. Follow this again with the third, fourth, etc. ensuring always that you accurately follow the chalk line, visually checking the alignment and that pavers themselves are tightly joined.

Weights must be used to hold down the pavers. Then start the "East/West" run doing exactly the same described above.

Quick Reference Dimensions in mm



EvoPave interlocking
Cover 36.36 bricks per m²

ADHESIVE

The EvoPave™ pavers will be bonded to the prepared sub-surface with a high grab strength, 1-component, high solids curing urethane adhesive which becomes tacky and bonds tenaciously after the solvent evaporates. It cures at ambient temperatures to become a strong, tack free heat and chemically resistant adhesive. It has outstanding water resistance and exterior durability even in hostile climates. The adhesive can be applied outdoors under adverse and highly variable weather conditions. Preferred application is by roller, trowel or brush.

The use of a high grab strength adhesive is vital in the paver installation as it helps overcome the tendency of the product to separate, creep or slip without having to resort to the use of too many weights or excessive rolling.

COLOURS

Grey

Red

Black

Green

TECHNICAL DATA

Material	recycled rubber particles molded with a custom formulated solvent free pure MDI polyurethane binder
Properties	water permeable, resilient, durable, slip proof, insulating, flexible, frost proof, non-flammable, non-toxic, sound deadening
Thickness	15mm, 20mm, 25mm and 45mm
Sound Absorption	approx. 5Db
Flammability	DIN 51960 Class 1
Slip Resistance	95 (dry) 65 (wet)
Abrasion Resistance	- after air aging 0.10 (gr.) - after water aging 0.36 (gr.) - after artificial weathering 0.20 (gr.)
Residual Indentation	0.64 mm after recovery
Fatigue Resistance	no cracking or fracture
Resistance to Ozone	no cracking or fracture
Infiltration Rate	25mm - approx. 180mm / hr 45mm - approx. 285mm / hr



Name	EvoPave™ Equine Interlocking Pavers	
Description	Prefabricated moulded rubber interlocking pavers composed of recycled rubber particles and an MDI polyurethane resin binder	
Uses	Equine facilities - along walkways, wash areas, stud areas and parades	
Thickness	EP 45 - 45mm	EP 25 - 25mm
Density	± 860 kg/m ³	
Traction Coefficient (u)	Good	
Slip Resistance (u)	Good	
Abrasion Resistance (g)	Pass	(BS 7044)
Fatigue Resistance (New)	No cracking or fracture	(BS 7044)
Spike Resistance	Up to 50,000 revs	(BS 7044)
Resistance to Indentation	0.64 mm - Pass	(BS 7044)
Resistance to Air Ageing	Pass	(BS 7044)
Fatigue Resistance (after Air Ageing)	No cracking or fracture	(BS 7044)
Resistance to Water Ageing	Pass	(BS 7044)
Fatigue Resistance (after Water Ageing)	No cracking or fracture	(BS 7044)
Resistance to Artificial Weathering	Pass	(BS 7044)
Fatigue Resistance (after Artificial Weathering)	No cracking or fracture	(BS 7044)
Resistance to Ozone	No cracking	(BS 7044)
Colour transfer	Pass	(BS 1006 A03)
Flammability	Class I	(DIN 51960)
Infiltration Rate	EP 45 = 285 mm/hr	EP 25 = 180 mm/hr

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EQUINE FACILITIES

MAINTENANCE

REGULAR CLEANING & MAINTENANCE PROCEDURES

Daily cleaning	Sweep debris away or hose off other dirt, urine or faeces
Periodic cleaning	As and when required. High pressure jet wash with wide to medium wide jet spray recommended - maximum pressure at 1,200 psi - until clean.

We recommend the following specific procedures for specific markings:-

Water Born and Miscellaneous Markings

Type of material	Acid, alcohol, alkali, blood, chocolate, coffee, cola dye, fruit juice, glue, ice cream, latex paint, milk, mustard rust, root, tea, urine, water colours
Remedy	Sponge or mop with a non-film making mild detergent and cold water. Rinse thoroughly.

Persistent Marking

Type of material	Remedy
Chewing gum	Spray with freon aerosol and scrape off. Rinse thoroughly.
Crayon, furniture stain	Sponge gently with dry cleaning solvent. Rinse thoroughly.
lipstick, metal polish	Sponge gently with dry cleaning solvent. Rinse thoroughly.
Nail polish	Sponge gently with acetone. Rinse thoroughly.
Oil paints	Blot immediately to prevent spread of material. Sponge gently with turpentine or paint remover. Re-sponge gently with non-film making mild detergent and cold water. Rinse thoroughly.
Paraffin wax or Tar	Scrape excess. Sponge gently with dry cleaning solvent. Rinse thoroughly.

Emulsified Markings

Type of Material	Cosmetics, ink, shoe polish, etc.
Remedy	Sponge with a non-film making mild detergent and cold water. Sponge gently with dry cleaning solvent. Re-sponge gently with non-film making mild detergent and cold water. Rinse thoroughly. High pressure jet wash with wide to medium wide jet spray recommended.



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EQUINE FACILITIES

EVOPAVE™ LAYOUT, DESIGN AND INSTALLATION

General Specifications Installation

NOTE

The customer or main contractor should always be made aware of the duration of the installation and limitations involved with rubber surfacing. No other trades are to be allowed in or around the work area 24 hours before installation and 7 x full days afterwards.

NOTE

Only Rephouse specified materials are to be used. Any and all chemicals, whether adhesive or top coatings should be kept from frost, rain or excessive heat. Any adhesive or top coatings that have been exposed to these elements voids any warranty.

NOTE

Make sure the sub-surface on which Evopave™ will be installed is completely dry and clear of all foreign matter and free of dust, dirt, oil or any kind of spills. Make sure all sub-surface requirements have been complied with.

NOTE

The sub-grade and sub-surface shall be constructed to a qualified Engineer's specification however, no significant settlement should occur of either as a result from its own weight or removal of soil.

NOTE

The sub-surface shall be constructed out of asphalt or concrete in accordance to DIN 18035, Part 6 specifications

NOTE

The sub-surface shall be constructed out of a suitable road-asphalt and crusher run, using the bitumen type specified in the DIN 18035, Part 6 specifications or in concrete according to a qualified Engineer's specification. Road asphalt shall be left to cure for a minimum of 14 days after completion and concrete for a minimum of 28 days.

NOTE

The finished sub-surface shall be smooth and trimmed and have no compaction or trowel ridges and shall not vary from the required levels by more than 4mm measured under a 4m straight edge, measured in any direction. Any resultant ponding of water after flooding, the sub-surface shall be corrected until no pond is deeper than 1mm.

NOTE

The sub-surface should be constructed with a designed slope $\leq 1\%$. Please consult the technical requirements involved for the construction of the relevant facility proposed.

NOTE

Remove all post holes, covers and lids and make an accurate sketch of their location for their future return.

NOTE

For all Evopave™ surfacing installations, normal resilient surfacing installation practices should be followed.

NOTE

The Evopave™ surfacing will follow the contours of the sub-surface which it covers. The smoother the sub-surface, the better the Evopave™ surfacing finish.

Installation Procedure

(a) The installation of Evopave™ should not begin until all works and trades have been completed and the complete area cleared of extraneous materials. If the requirements are as such that Evopave™ surface must be installed before other trades have completed their work, the installed Evopave™ surface should be covered with a suitable protective covering.

(b) For interior installation, all rooms, Evopave™ surfacing and adhesive should be left to acclimatize at a minimum temperature of 20°C for at least 24 hours before, during and after the installation is completed.

NOTE

To minimize installation difficulties, avoid extreme temperatures between storage and installation areas. For optimal ease, store material at room temperature (20°C / 70°F).

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EVOPAWE™ LAYOUT, DESIGN AND INSTALLATION

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(c) For fully adhered installations, spread adhesive evenly and at the recommended rate. Weights such as sand bags and weight rolling have to used on the Evopave™ surface installation until the adhesive is cured.

(d) For fully adhered indoor installations, a two-part polyurethane adhesive such as Rephouse's PU88 or a two-part epoxy adhesive may be used or any adhesive that has been tested and recommended for use with Evopave™.

e) For fully adhered outdoor installations, a one-part solvent based polyurethane or two-part polyurethane adhesive such as Rephouse's PU88 may be used or any adhesive that has been tested and recommended for use with Evopave™.

NOTE

We do not recommend that 15mm or 25 mm thick Evopave™ is loose laid. Adhesive is recommended to prevent movement due to extreme temperature differences.

NOTE

Allow sufficient time for adhesive to cure properly prior to allowing foot traffic onto Evopave™ surfacing Use caution whenever using razor knives or similar cutting devices to prevent accidental injuries.

(f) Only 45 mm thick Evopave™ may be installed in a loose lay format. Loose lay applications done indoors are based on the installer's recommendations and the end user's requirements. All Evopave™ surfacing must be laid out to 'relax' prior to installation.

(g) Evopave™ can be field cut by utilizing a razor (or Stanley) knife and a straight edge.

(h) Reducing strips, edge guards and corner strips manufactured from metal, vinyl or rubber may be used by the installer at his discretion.

(i) Lines may be painted directly onto Evopave™ using a 2-component non-yellow aliphatic polyurethane line paint

(j) To achieve tight seams, dress the finished Evopave™ surface after installation with a fine silica sand and broom the sand into the seams. Once completed, remove any excess sand by vacuuming or washing.

(k) When the Evopave™ surfacing is installed and embedded into the adhesive, it is recommended that the entire surface be rolled using a 50 kg. hand-held flooring roller. This is done to embed Evopave™ into the adhesive and eliminate any entrapped air. This must be done simultaneously as Evopave™ is being installed.

Weights such as sand bags must be placed on edges, seams, corners, ends until such time the adhesive has set. It may be necessary to roll the installed Evopave™ repeatedly for up to 2 hours but should never stop until the adhesive has set. Rolling the Evopave™ surface ensures a proper bond to the sub-surface.

(l) Care should be taken when embedding Evopave™ into the adhesive. Do not drag the Evopave™ pavers across the adhesive, thereby possibly contaminating the adjacent paver.

(m) allow the adhesive to cure for a minimum of 12 x hours before using the Evopave™ floor.

(n) Refer to Maintenance procedures for cleaning and finishing options before handing over work to the customer.



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