


EPO-KEM PRODUCT DATA SHEET

EPO-KEM SPIKE-PAVE

Spike resistant rubberised paving

(revised 5-9-97)

DESCRIPTION	<p>EPO-KEM SPIKE-PAVE is a coloured rubber paving surface specifically designed to withstand spiked footwear. EPO-KEM SPIKE-PAVE is made from a carefully designed composite of polyurethane resins and coloured rubber granules. EPO-KEM SPIKE-PAVE is installed in-situ to asphalt and concrete bases in a single resilient layer using specialised mixing and paving equipment. EPO-KEM SPIKE-PAVE is permanently elastic, fully coloured through and has extremely good wear, UV and weather resistance.</p>																																														
FEATURES	<p>When applied and cured correctly by a specialist installer, EPO-KEM SPIKE-PAVE has the following features:</p> <ul style="list-style-type: none"> • Resistant to damage from spiked shoes • Comfortable, safe and quiet to walk on • Shock absorbing • Excellent colour retention – fully coloured through so colour cannot wear off • Resistant to UV radiation • Water permeable – no messy puddles • Easy application • Low glare • Slip resistant surface • Decorative – range of 18 colour combinations • Very tough and resistant to wear • Permanently resilient, elastic and flexible • Low maintenance 	 <p>FLOORING</p> <p>Purple Rubber 'Epo' matting - coloured rubber tiles with textured surface, 100% wear resistant, \$30 sq m.</p> <p>Spike-Resist matting - rubber flooring in white, black, red, blue, green, yellow, orange, pink, purple, grey, brown, tan, black, white, and silver. \$30 sq m.</p> <p>Spike-PAVE as featured in Vogue magazine</p>																																													
USES	<p>EPO-KEM SPIKE-PAVE has been developed predominantly as a paving system for areas where spiked shoes are commonly worn. Typical areas where EPO-KEM SPIKE-PAVE is useful are golf clubs, cricket clubs and athletics club facilities. EPO-KEM SPIKE-PAVE can also be used as a multi-functional sports surface suited to outdoor use for sports such as tennis, volleyball, basketball, netball, handball etc. EPO-KEM SPIKE-PAVE is also suited as a children's playing surface providing it is not used under play equipment installed more than 600mm above ground level. In these circumstances buyers should consult EPO-KEM regarding the use of our purpose designed flooring which conforms to AS/NZS4422: 1996 for playground under-surfacing.</p>																																														
FINISH	<p>Matt, low glare, smooth but "open" textured slip resistant finish. Final finish will depend on application technique. Available in 18 standard colours, a gloss seal-coat is available as an option.</p>																																														
MAINTENANCE	<p>Maintenance is extremely low. Regular sweeping and normal rainfall should keep the surface clean for most of the year. If staining from leaves or other contamination occurs, it may be necessary to wash the surface by scrubbing with a mild detergent solution. In shady areas and tropical climates it may be necessary to use an approved biocide or fungicide periodically. Ask your Distributor or Installer for details.</p>																																														
THICKNESS	<p>Nominally 12 – 15mm but dependent on flatness of base.</p>																																														
TYPICAL PROPERTIES	<table border="0"> <tr> <td>Shore hardness</td> <td>:</td> <td>50 – 60 Shore A</td> </tr> <tr> <td>Appearance</td> <td>:</td> <td>coloured granular texture</td> </tr> <tr> <td>Compression strength at 20°C</td> <td>:</td> <td>10% 0.18 – 0.22 MN/m²</td> </tr> <tr> <td></td> <td>:</td> <td>50% 5.3 – 5.7 MN/m²</td> </tr> <tr> <td>Water absorption</td> <td>:</td> <td>< 20%</td> </tr> <tr> <td>Surface structure</td> <td>:</td> <td>coarse</td> </tr> <tr> <td>Specific gravity</td> <td>:</td> <td>0.75 – 0.85 (depending on colour)</td> </tr> <tr> <td>Pressure distortion test DIN 53517</td> <td>:</td> <td>< 15%</td> </tr> <tr> <td>Non-skid Leroux</td> <td>:</td> <td>dry > 0.7 wet > 0.4</td> </tr> <tr> <td>Impact resilience</td> <td>:</td> <td>30 – 40%</td> </tr> <tr> <td>Wear resistance</td> <td>:</td> <td>very good</td> </tr> <tr> <td>Spikes sensitivity</td> <td>:</td> <td>slight</td> </tr> <tr> <td>Tensile strength ASTM D412</td> <td>:</td> <td>0.3 – 0.4 MN/m²</td> </tr> <tr> <td>Ultimate elongation ASTM D412:</td> <td>35 – 45%</td> <td></td> </tr> <tr> <td>Tear strength ASTM D624</td> <td>:</td> <td>3 – 4 kN/m</td> </tr> </table>		Shore hardness	:	50 – 60 Shore A	Appearance	:	coloured granular texture	Compression strength at 20°C	:	10% 0.18 – 0.22 MN/m ²		:	50% 5.3 – 5.7 MN/m ²	Water absorption	:	< 20%	Surface structure	:	coarse	Specific gravity	:	0.75 – 0.85 (depending on colour)	Pressure distortion test DIN 53517	:	< 15%	Non-skid Leroux	:	dry > 0.7 wet > 0.4	Impact resilience	:	30 – 40%	Wear resistance	:	very good	Spikes sensitivity	:	slight	Tensile strength ASTM D412	:	0.3 – 0.4 MN/m ²	Ultimate elongation ASTM D412:	35 – 45%		Tear strength ASTM D624	:	3 – 4 kN/m
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Supplier:

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BASES (substructures)	<p>ASPHALT: New asphalt must be cured for at least 14 days, in colder climates up to 28 days. The surface must drain freely without ponding and have a flatness tolerance of no worse than 2mm under a 2m straight edge as measured in any direction. The asphalt must be well compacted, strong, smooth and be clean of all grease, oil, dirt and any foreign matter.</p> <p>CONCRETE: Concrete must be a minimum of 20mPa, a thickness of 100mm and be finished by steel trowel followed by a light brooming to promote good bonding. Flatness tolerance and drainage as for asphalt. Concrete bases must be cured for a minimum of 1 month before applying EPO-KEM SPIKE-PAVE.</p> <p>This information is not intended to be exhaustive, but bases must be designed with these requirements included. Other design considerations are drainage, edge and joint detail. EPO-KEM document “SPECIAL CONDITIONS FOR FLOOR SUBSTRUCTURES” should also be consulted.</p>						
INSTALLATION	<p>SURFACE PREPARATION: Check base is constructed to minimum requirements as above. If the base needs cleaning, remove contamination with appropriate detergent or cleaner and flush thoroughly with water. Washing with a high-pressure water blaster (2500psi or higher) may be a good option. Allow surface to dry thoroughly before proceeding with the paving. Concrete should be mechanically prepared (e.g. shotblasting) or etched with a solution of 10 parts water to 1 part concentrated hydrochloric acid. Broom well into surface and flush clean with plenty of clean water. Check pH of damp concrete to ensure all traces of acid have been removed. Prime dry surface with EPO-KEM SPIKE-PAVE PRIMER by roller or spray using 15 – 20kg for every 100m² of surface area.</p> <p>REPAIRS: An expert must do any repairs needed on a concrete base. Filling of non-structural cracks and low areas of an asphalt base may be done with a fine asphalt mix or EPO-KEM SPIKE-PAVE PU FILLER. It may be necessary to enlarge cracks to ensure they can be sufficiently filled.</p> <p>APPLICATION: Large areas of EPO-KEM SPIKE-PAVE are installed utilising specialist mixing and paving equipment. This should only be attempted by a competent specialist sports surfacing contractor approved by EPO-KEM. Smaller areas may be applied by a more simple method but extreme care must still be taken and appropriate mixing equipment used. The mixed EPO-KEM SPIKE-PAVE materials are spread evenly over the prepared and primed base by screeding. They are then levelled and compacted by steel trowel and roller.</p> <p>OPTIONS: EPO-KEM SPIKE-PAVE will initially discolour slightly on exposure to sunlight but the full colour returns after a wearing in period. If it is desired to have the full colour maintained from day one, then the surface can be sanded. If a richer glossy colour is desired, apply 1 – 2 coats of EPO-KEM SPIKE-PAVE SEALER by roller or spray. The sealer will need to be maintained as it wears.</p>						
DILUTION	All materials must be used as they are supplied, no dilution is permitted.						
COVERAGE	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">EPO-KEM SPIKE-PAVE PRIMER</td> <td style="border: none;">5 – 8m² per kg</td> </tr> <tr> <td style="border: none;">EPO-KEM SPIKE-PAVE</td> <td style="border: none;">0.8kg per mm per m² of thickness to be installed</td> </tr> <tr> <td style="border: none;">EPO-KEM SPIKE-PAVE SEALER</td> <td style="border: none;">8 – 10m² per kg per coat</td> </tr> </table>	EPO-KEM SPIKE-PAVE PRIMER	5 – 8m ² per kg	EPO-KEM SPIKE-PAVE	0.8kg per mm per m ² of thickness to be installed	EPO-KEM SPIKE-PAVE SEALER	8 – 10m ² per kg per coat
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CURING	Full cure will depend on the ambient temperature and relative humidity of the prevailing conditions. Generally it is permitted to use the surface 48 hours after it is “touch dry”. Your installer or supplier will advise.						
LINEMARKING	Available in standard colours of white, yellow, red, blue and green. Special colours on request. Always apply at least two coats for opacity. Our linepaint is suitable for brush, roller or airless spray application.						
SAFETY	When mixing and applying any of the above-mentioned products, provide adequate ventilation. Users should avoid spillages and contact with skin or eyes. An MSDS (material safety data sheet) is available for each component and should be consulted before use.						

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