

EPO-KEM PRODUCT DATA SHEET

EPO-KEM SPORTSFLOOR PU/R

Point Elastic Multipurpose Indoor Sportsfloor (revised 19-5-97)

DESCRIPTION	<p>EPO-KEM SPORTSFLOOR PU/R is a so-called sandwich sports flooring system comprising of a shock absorbing rubber underlay, an elastomeric top layer and a matt, satin or gloss wear layer. EPO-KEM SPORTSFLOOR PU/R has a smooth, seamless and even surface with a slight "orange peel" texture. It is an elastic, shock absorbing and very tough floor surface. EPO-KEM SPORTSFLOOR PU/R is commonly used a multi-use floor in halls where a variety of sports share the same space. Can conform to DIN 18032 part 2.</p>									
FEATURES	<p>When applied and cured correctly, EPO-KEM SPORTSFLOOR PU/R has the following features:</p> <ul style="list-style-type: none"> • Seamless and smooth • Multi-functional, suitable for a wide range of sports and non-sports related activities • Comfortable, safe and quiet to walk on • Shock absorbing and resilient • Adjustable thickness to suit different uses • Insulating, both thermal and acoustic • Fire retardant • Decorative, wide range of colours available • Low glare • Tough and resistant to wear • Permanently resilient, elastic and flexible • Easy to keep clean • Low maintenance 	 <p style="text-align: center;">UNDERLAY</p>  <p style="text-align: center;">FINISHED FLOOR - School</p>								
USES	<p>EPO-KEM SPORTSFLOOR PU/R has been developed predominantly as a multi-functional "point elastic" sportsfloor specially suited for gymnastics and indoor ball games such as volleyball, badminton, tennis, basketball, netball, handball etc. In fact, wherever a sportshall is not dedicated to one predominant sport, EPO-KEM SPORTSFLOOR PU/R is the ideal compromise. The inherent properties of this flooring system also make it ideal for non-sport uses, some of these include:</p> <ul style="list-style-type: none"> Laboratory floors Operating theatres Hospital wards Community halls Children's play areas School workrooms Kitchen floors "Worker friendly" floors 									
FINISH	<p>Satin, matt or gloss, smooth or textured. The surface finish of EPO-KEM SPORTSFLOOR PU/R is adjustable to suit the clients requirements. Final finish will depend on the selection of top coats. Available in approximately 60 colours from the EPO-KEM Colour Chart.</p>									
MAINTENANCE	<p>Maintenance is similar to a sheet vinyl floor. Instructions are available on request.</p>									
FIRE RATING	<p>BS 476: part 7, class 2 AS 1530.3 – 1989</p>	<p>Fire retardant, low surface spread of flame.</p> <table border="0"> <tr> <td>Ignitability Index</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Spread of Flame Index</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Heat Evolved Index</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Smoke Developed Index</td> <td style="text-align: right;">7</td> </tr> </table>	Ignitability Index	13	Spread of Flame Index	0	Heat Evolved Index	1	Smoke Developed Index	7
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THICKNESS	<p>5 – 25mm. Final selection will depend on the purpose of the floor. The rubber underlay is available in 3, 5, 7, 8 & 10mm thick and can be laminated together for a greater thickness. The toplayer is applied liquid in-situ and can be installed up to 5mm thick in a single layer. Once the underlay thickness goes over 10mm, EPO-KEM SUPERFLEX FIBRE must be installed for adequate resistance to point loads such as chair and table legs.</p>									

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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 have a flatness tolerance of no worse than 3mm under a 3m 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: Most important is the inclusion of a waterproof membrane to ensure no water or water vapour can enter the concrete structure. 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 as for asphalt. Concrete bases must be cured for a minimum of 1 month before applying EPO-KEM SPORTSFLOOR PU/R.</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 new base is constructed to minimum requirements as above. Base should be clean and free from contamination. Always carry out an adhesion test before proceeding with installation. Old concrete should be mechanically prepared by e.g. shotblasting or grinding to remove cement laitance and any contamination. Concrete bases require special care due to their slightly porous nature and tendency to cracking. Prime dry surface with EPO-KEM SPORTSFLOOR PU/R 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 (minimum thickness 10mm) or EPO-KEM SPORTSFLOOR PU/R FILLER (less than 10mm). It may be necessary to enlarge cracks to ensure they can be sufficiently filled.</p> <p>APPLICATION: EPO-KEM SPORTSFLOOR PU/R must only be installed by a competent specialist sports surfacing contractor approved by EPO-KEM.</p>																																	
DILUTION	All materials must be used as they are supplied, no dilution is permitted.																																	
COVERAGE	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">EPO-KEM PU/R ADHESIVE</td> <td style="width: 40%;">0.5 – 0.7 kg per m²</td> </tr> <tr> <td>EPO-KEM TB MATS</td> <td>selected thickness in mm per m²</td> </tr> <tr> <td>EPO-KEM SCRATCHCOAT A80</td> <td>0.6 – 0.8 kg per m²</td> </tr> <tr> <td>EPO-KEM PU/SL A80</td> <td>2.0 – 2.8 kg per m²</td> </tr> <tr> <td>EPO-KEM COATING PU/S (matt, satin or gloss)</td> <td>0.25 kg per m²</td> </tr> </table>	EPO-KEM PU/R ADHESIVE	0.5 – 0.7 kg per m ²	EPO-KEM TB MATS	selected thickness in mm per m ²	EPO-KEM SCRATCHCOAT A80	0.6 – 0.8 kg per m ²	EPO-KEM PU/SL A80	2.0 – 2.8 kg per m ²	EPO-KEM COATING PU/S (matt, satin or gloss)	0.25 kg per m ²																							
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CURING	Full cure will depend on the ambient temperature and relative humidity of the prevailing conditions. Light foot traffic may be allowed after 48 hours at 25°C. Full cure is obtained after 7 days. It is normally advisable to provide protection on a building site until the floor is ready to be handed over for use.																																	
LINEMARKING	Available in all colours required for sports linemarking. Special colours on request. Always apply at least two coats for opacity. Our recommended linepaint is a very fine particle size, low profile, low bleed, low glare, high opacity material suitable for spray or brush 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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