


# EPO-KEM PRODUCT DATA SHEET

## EPO-KEM SYNTHETIC FLOOR PU/SL

Self-leveling, elastic floor surfacing

(revised 19-5-97)

<b>DESCRIPTION</b>	<p><b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> is a two component, liquid applied flooring system with unique properties and features. <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> has a smooth, seamless and even surface with a slight "orange peel" texture. It is elastic, flexible, tough and abrasion resistant. <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> is commonly used as a flooring system in clean-room situations, pharmaceutical plants, food manufacturing and laboratories and also a commercial floor f.i. shopping centres and stores.</p>									
<b>FEATURES</b>	<p>When installed correctly, <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> has the following features:</p> <ul style="list-style-type: none"> <li>• Seamless and smooth → textured</li> <li>• Self-leveling liquid application</li> <li>• Waterproof</li> <li>• Comfortable, safe and quiet to walk on</li> <li>• Adjustable thickness to suit different uses</li> <li>• Insulating, both thermal and acoustic</li> <li>• Fire retardant</li> <li>• Decorative, wide range of colours available</li> <li>• Low glare</li> <li>• Tough and resistant to wear</li> <li>• Permanently resilient, elastic and flexible</li> <li>• Easy to keep clean</li> <li>• Low maintenance</li> <li>• Resistant to most common chemicals</li> </ul>	 <p>WESTMEAD CHILDREN'S HOSPITAL - Sydney</p>								
<b>USES</b>	<p><b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> is most suitable for use in areas where cleanliness, comfort and appearance is important but where the main function of the floor is to withstand abrasion, chemicals and a generally high wear environment.</p> <p>The inherent properties of this flooring system also make it ideal for:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>Laboratory floors</li> <li>Shops</li> <li>Electronic industry</li> <li>Operating theatres</li> <li>Hospital wards</li> <li>Community halls</li> <li>Children's play areas</li> <li>Food Processing</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>School workrooms</li> <li>Concourses</li> <li>Pharmaceutical industry</li> <li>Kitchen floors</li> <li>"Worker friendly" floors</li> <li>Production Lines</li> <li>Clothing industry</li> <li>Printing industry</li> </ul> </td> </tr> </table>		<ul style="list-style-type: none"> <li>Laboratory floors</li> <li>Shops</li> <li>Electronic industry</li> <li>Operating theatres</li> <li>Hospital wards</li> <li>Community halls</li> <li>Children's play areas</li> <li>Food Processing</li> </ul>	<ul style="list-style-type: none"> <li>School workrooms</li> <li>Concourses</li> <li>Pharmaceutical industry</li> <li>Kitchen floors</li> <li>"Worker friendly" floors</li> <li>Production Lines</li> <li>Clothing industry</li> <li>Printing industry</li> </ul>						
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<b>FINISH</b>	<p>Satin, matt or gloss, smooth or textured. The surface finish of <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> is adjustable to suit the clients requirements. Final finish will depend on the selection of top coats. Available in 60 colours from the EPO-KEM Colour Chart and also decorative fleck finishes.</p>									
<b>MAINTENANCE</b>	<p>Maintenance is similar to a sheet vinyl floor. Any damage must be repaired without delay, especially in wet environments. Proper maintenance will extend the life of the floor.</p>									
<b>FIRE RATING</b>	<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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<b>THICKNESS</b>	<p>2mm minimum and all thickness' greater although it is seldom necessary to go above 6mm. The thickness selection will depend on the proposed end use of the floor and the condition of the substrate.</p>									
<b>CHEMICAL RESISTANCE</b>	<p>Very good resistance to most commonly used chemicals. Refer to the Chemical Resistance Chart on the back page for specific information.</p>									
	<p><b>GRADES AVAILABLE</b> :            <b>A80</b>                            <b>A95</b>                            <b>D60</b></p>									

**Supplier:**

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# EPO-KEM PRODUCT DATA SHEET

<b>TYPICAL PROPERTIES</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Shore hardness</td> <td style="width: 10%;">:</td> <td style="width: 20%;">A75-85</td> <td style="width: 20%;">A90-100</td> <td style="width: 20%;">D55-65</td> </tr> <tr> <td>Tensile Strength (N/mm<sup>2</sup>)</td> <td>:</td> <td>6-8</td> <td>8-12</td> <td>14-18</td> </tr> <tr> <td>Elongation at break (%)</td> <td>:</td> <td>45-55</td> <td>55-65</td> <td>70-80</td> </tr> <tr> <td>Tear Resistance (graves) Kn/m</td> <td>:</td> <td>15-20</td> <td>20-30</td> <td>35-45</td> </tr> <tr> <td>Wear resistance (mg) (Taber CS10, 1000 revs)</td> <td>:</td> <td>12 max</td> <td>12 max</td> <td>14 max</td> </tr> <tr> <td>Bond strength (steel/steel N/mm<sup>2</sup>)</td> <td>:</td> <td>10-15</td> <td>10-15</td> <td>15-20</td> </tr> </table>	Shore hardness	:	A75-85	A90-100	D55-65	Tensile Strength (N/mm <sup>2</sup> )	:	6-8	8-12	14-18	Elongation at break (%)	:	45-55	55-65	70-80	Tear Resistance (graves) Kn/m	:	15-20	20-30	35-45	Wear resistance (mg) (Taber CS10, 1000 revs)	:	12 max	12 max	14 max	Bond strength (steel/steel N/mm <sup>2</sup> )	:	10-15	10-15	15-20
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<b>BASES</b> (substructures)	<p><b>ASPHALT:</b> 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><b>CONCRETE:</b> 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 <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b>.</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 <b>"SPECIAL CONDITIONS FOR FLOOR SUBSTRUCTURES"</b> should also be consulted.</p>																														
<b>INSTALLATION</b>	<p><b>SURFACE PREPARATION:</b> 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 <b>EPO-KEM SYNTHETIC FLOOR PU/SL PRIMER</b> by roller or spray using 15 – 20kg for every 100m<sup>2</sup> of surface area.</p> <p><b>REPAIRS:</b> 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 <b>EPO-KEM SYNTHETIC FLOOR PU/SL FILLER</b> (less than 10mm). It may be necessary to enlarge cracks to ensure they can be sufficiently filled.</p> <p><b>APPLICATION:</b> <b>EPO-KEM SYNTHETIC FLOOR PU/SL</b> must only be installed by a competent specialist surfacing contractor approved by EPO-KEM.</p>																														
<b>DILUTION</b>	All materials must be used as they are supplied, no dilution is permitted.																														
<b>MATERIAL PROPERTIES</b>	<p><b>Pot Life</b> relative : The pot life of polyurethanes is related to ambient temperature and humidity. The following must therefore be used as an indication and not definitive: All grades: 15 minutes @ 30°C 25 minutes @ 20°C 40 minutes @ 10°C</p> <p><b>Application Temp. Range</b> : 10 – 35°C (outside this range, consult the manufacturer)</p> <p><b>Mix Ratio</b> : All grades, COMPONENT A (polyol) 4 parts (by weight) COMPONENT B (iso) 1 part</p> <p><b>Curing</b> : 15°C Light Foot Traffic Full Cure 48 hrs 14 days 25°C 24 hrs 7 days 35°C 16 hrs 4 days</p> <p><b>Packaging</b> : 25 kg kits</p> <p><b>Shelf Life</b> : 12 months in sealed containers away from heat and moisture. COMPONENT A will settle quickly and needs thorough stirring prior to addition of COMPONENT B.</p>																														

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<b>COVERAGE</b>	<p><b>EPO-KEM PRIMER</b> 0.1 – 0.2 kg per m<sup>2</sup>  <b>EPO-KEM PU/SL (levelling layer)</b> 0.8 – 1.2 kg per m<sup>2</sup>  <b>EPO-KEM PU/SL</b> 2.5 kg per m<sup>2</sup>  <b>EPO-KEM COATING PU/S or PU/SH (matt or satin)</b> 0.25 kg per m<sup>2</sup>  <b>EPO-KEM COATING PU/S or PU/SH Clear (gloss)</b> 0.1 kg per m<sup>2</sup> * OPTIONAL</p>																																																																																																																																																																																																																																																																																																												
<b>THINNERS</b>	EPO-KEM THINNERS PU/S(H) are recommended for thinning EPO-KEM COATING PU/S or PU/SH up to a maximum of 20% addition rate. EPO-KEM THINNERS PU/S(H) may also be used for cleaning tools while the materials are still uncured. Other products must not be thinned.																																																																																																																																																																																																																																																																																																												
<b>SAFETY</b>	When mixing and applying any of the above-mentioned products, provide adequate ventilation. Users should avoid spillages and contact with skin or eyes. An <b>MSDS</b> (material safety data sheet) is available for each component and should be consulted before use.																																																																																																																																																																																																																																																																																																												
<b>CHEMICAL RESISTANCE</b>	<p>The table below represents the resistance of the topcoats PU/S and PU/SH when exposed continuously to the chemicals listed at 25°C. All samples were cured for 7 days at 20°C and tests were discontinued after two months (unless previously terminated). Experience has shown that where there was no attack by chemicals during this period, the expected working life of the floor remains unaffected by periodic exposure, assuming the topcoat has maintained its integrity and that normal housekeeping measures are carried out. If the topcoat is allowed to deteriorate, certain of the chemicals listed below will adversely affect the self levelling layer. Where the system shows reduced resistance, the total time of exposure should also be taken into account. However, caution should be exercised where softening or blistering occurs within ten days. Contact EPO-KEM for information on chemicals other than those shown in the chart below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">CHEMICAL</th> <th colspan="10">EXPOSURE TIME</th> </tr> <tr> <th>% soln.</th> <th>1 day</th> <th>2 days</th> <th>7 days</th> <th>10 days</th> <th>2 weeks</th> <th>3 weeks</th> <th>1 month</th> <th>2 mths</th> </tr> </thead> <tbody> <tr><td>Acetic Acid</td><td>10</td><td>U</td><td>U</td><td>S/R</td><td>S/B</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>Citric Acid</td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Formic Acid</td><td>10</td><td>U</td><td>U</td><td>S/B</td><td>S/B</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>Lactic Acid</td><td>25</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Nitric Acid</td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Phosphoric Acid</td><td>20</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sulphuric Acid</td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Ammonia</td><td>10</td><td>U</td><td>U</td><td>U</td><td>S/R</td><td>S/R</td><td>S/B</td><td>X</td><td>X</td></tr> <tr><td>Hydrogen Peroxide</td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sodium Carbonate</td><td>20</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sodium Chloride</td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sodium Hydroxide</td><td>20</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sodium Hypochlorite</td><td>1</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Water (distilled)</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Acetone<sup>∩</sup></td><td>95</td><td>U</td><td>S/R</td><td>S/B</td><td>DE</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>Ethanol<sup>∩</sup></td><td>10</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>S/R</td><td>S/B</td></tr> <tr><td>Ethanol</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Ethoxy Ethyl Acetate<sup>∩</sup></td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Methylene Chloride<sup>∩</sup></td><td></td><td>S/R</td><td>S/B</td><td>DE</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>Petrol (leaded)<sup>∩</sup></td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Trichloroethane<sup>∩</sup></td><td></td><td>S/R</td><td>S/B</td><td>DE</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>Xylene<sup>∩</sup></td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Mineral Oils (all types)</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Vegetable Oils</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>X</td></tr> <tr><td>Beers</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Fruit Juices</td><td></td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Soap Solution</td><td>20</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> <tr><td>Sugar Solution</td><td>30</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></tr> </tbody> </table> <p style="margin-top: 10px;"><b>KEY:</b> U = Unaffected  DE = destroyed  X = discontinued  S/R = softens slightly but recovers fully after drying.  S/B = Softens, blisters.</p> <p style="margin-top: 10px;"><b>NITES:</b> <sup>∩</sup> These solvents will cause swelling and softening of the SL layer.  <sup>∩</sup> These solvents will cause swelling and probable destruction of the SL layer within 3 days.</p>	CHEMICAL	EXPOSURE TIME										% soln.	1 day	2 days	7 days	10 days	2 weeks	3 weeks	1 month	2 mths	Acetic Acid	10	U	U	S/R	S/B	X	X	X	X	Citric Acid	10	U	U	U	U	U	U	U	U	Formic Acid	10	U	U	S/B	S/B	X	X	X	X	Lactic Acid	25	U	U	U	U	U	U	U	U	Nitric Acid	10	U	U	U	U	U	U	U	U	Phosphoric Acid	20	U	U	U	U	U	U	U	U	Sulphuric Acid	10	U	U	U	U	U	U	U	U	Ammonia	10	U	U	U	S/R	S/R	S/B	X	X	Hydrogen Peroxide	10	U	U	U	U	U	U	U	U	Sodium Carbonate	20	U	U	U	U	U	U	U	U	Sodium Chloride	10	U	U	U	U	U	U	U	U	Sodium Hydroxide	20	U	U	U	U	U	U	U	U	Sodium Hypochlorite	1	U	U	U	U	U	U	U	U	Water (distilled)		U	U	U	U	U	U	U	U	Acetone <sup>∩</sup>	95	U	S/R	S/B	DE	X	X	X	X	Ethanol <sup>∩</sup>	10	U	U	U	U	U	U	S/R	S/B	Ethanol		U	U	U	U	U	U	U	U	Ethoxy Ethyl Acetate <sup>∩</sup>		U	U	U	U	U	U	U	U	Methylene Chloride <sup>∩</sup>		S/R	S/B	DE	X	X	X	X	X	Petrol (leaded) <sup>∩</sup>		U	U	U	U	U	U	U	U	Trichloroethane <sup>∩</sup>		S/R	S/B	DE	X	X	X	X	X	Xylene <sup>∩</sup>		U	U	U	U	U	U	U	U	Mineral Oils (all types)		U	U	U	U	U	U	U	U	Vegetable Oils		U	U	U	U	U	U	U	X	Beers		U	U	U	U	U	U	U	U	Fruit Juices		U	U	U	U	U	U	U	U	Soap Solution	20	U	U	U	U	U	U	U	U	Sugar Solution	30	U	U	U	U	U	U	U	U
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Sodium Hydroxide	20	U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Sodium Hypochlorite	1	U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Water (distilled)		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Acetone <sup>∩</sup>	95	U	S/R	S/B	DE	X	X	X	X																																																																																																																																																																																																																																																																																																				
Ethanol <sup>∩</sup>	10	U	U	U	U	U	U	S/R	S/B																																																																																																																																																																																																																																																																																																				
Ethanol		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Ethoxy Ethyl Acetate <sup>∩</sup>		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Methylene Chloride <sup>∩</sup>		S/R	S/B	DE	X	X	X	X	X																																																																																																																																																																																																																																																																																																				
Petrol (leaded) <sup>∩</sup>		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Trichloroethane <sup>∩</sup>		S/R	S/B	DE	X	X	X	X	X																																																																																																																																																																																																																																																																																																				
Xylene <sup>∩</sup>		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Mineral Oils (all types)		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Vegetable Oils		U	U	U	U	U	U	U	X																																																																																																																																																																																																																																																																																																				
Beers		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Fruit Juices		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Soap Solution	20	U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Sugar Solution	30	U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
<b>HOW TO SPECIFY</b>																																																																																																																																																																																																																																																																																																													

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