


EPO-KEM PRODUCT DATA SHEET

EPO-KEM SYNTHETIC FLOOR E/SL

Self-levelling, seamless floor surfacing (revised 19-5-97)

DESCRIPTION	<p><i>EPO-KEM SYNTHETIC FLOOR E/SL</i> is a two component, liquid applied flooring system with unique properties and features. <i>EPO-KEM SYNTHETIC FLOOR E/SL</i> has a smooth, seamless and even surface. It is wear resistant and highly resistant to the most frequent chemicals and solvents. <i>EPO-KEM SYNTHETIC FLOOR E/SL</i> is commonly used as a flooring system in clean-room situations, pharmaceutical plants, food manufacturing, supermarkets, warehouses, printing offices, laboratories, nuclear power stations and radioactive areas. The latter especially in view of its properties such as low electrical breakdown voltages and its being free from radioactive components or components becoming radioactive.</p>																
FEATURES	<p>When installed correctly, <i>EPO-KEM SYNTHETIC FLOOR E/SL</i> has the following features:</p> <ul style="list-style-type: none"> • Seamless and smooth • Self-levelling liquid application • Waterproof • Adjustable thickness to suit different uses • Thermally insulating • Decorative, wide range of colours available • Tough and resistant to wear • Easy to keep clean • Low maintenance • Resistant to most common chemicals 	 <p style="text-align: center;"><i>Applying EPO-KEM SYNTHETIC FLOOR E/SL</i></p>															
USES	<p><i>EPO-KEM SYNTHETIC FLOOR E/SL</i> is most suitable for use in areas where cleanliness and appearance is important but where the main function of the floor is to be able to be kept clean, withstand chemicals and a generally high wear environment. The inherent properties of this flooring system also make it ideal for:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Laboratory floors Electronic industry Operating theatres Hospital wards Food Processing </td> <td style="width: 50%; vertical-align: top;"> School workrooms Pharmaceutical industry Production Lines Clothing industry Printing industry </td> </tr> </table>		Laboratory floors Electronic industry Operating theatres Hospital wards Food Processing	School workrooms Pharmaceutical industry Production Lines Clothing industry Printing industry													
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FINISH	<p>Satin/gloss when new, dulling off to a silky appearance when worn. Smooth surface which follows the foundation when applied. So if a completely flat, level surface is desired the foundation must first be flat and level. The surface finish of <i>EPO-KEM SYNTHETIC FLOOR E/SL</i> is adjustable by the addition of one or two top coats of a compatible EPO-KEM coating system. A common enhancement is to top coat with <i>EPO-KEM COATING PU/SH</i> which brings increased resistance to abrasion and scuffing and a slip resistant texture. Final finish will depend on the selection of top coats. Available in approximately 60 colours from the EPO-KEM Colour Chart and also decorative fleck finishes.</p>																
MAINTENANCE	<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>																
FIRE RATING	<table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">BS 476: part 7, class 2</td> <td colspan="2">Fire retardant, low surface spread of flame.</td> </tr> <tr> <td>AS 1530.3 – 1989</td> <td>Ignitibility Index</td> <td>13</td> </tr> <tr> <td></td> <td>Spread of Flame Index</td> <td>0</td> </tr> <tr> <td></td> <td>Heat Evolved Index</td> <td>1</td> </tr> <tr> <td></td> <td>Smoke Developed Index</td> <td>7</td> </tr> </table>		BS 476: part 7, class 2	Fire retardant, low surface spread of flame.		AS 1530.3 – 1989	Ignitibility Index	13		Spread of Flame Index	0		Heat Evolved Index	1		Smoke Developed Index	7
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THICKNESS	<p>1.5mm 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>																
CHEMICAL RESISTANCE	<p>Very good resistance to most commonly used chemicals. Refer to the Chemical Resistance Chart on the back page for specific information.</p>																

Supplier:

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TYPICAL CURED PROPERTIES (measured at 20°C)	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Specific Gravity</td><td style="width: 5%;">:</td><td style="width: 45%;">ca.1.9</td></tr> <tr><td>Bending Tensile Strength (N/mm²)</td><td>:</td><td>ca. 25 MPa</td></tr> <tr><td>Compressive Strength</td><td>:</td><td>ca. 60 MPa</td></tr> <tr><td>E-Modulus</td><td>:</td><td>ca. 6,000 Mpa</td></tr> <tr><td>Wear resistance (Amsler)</td><td>:</td><td>ca. 1.5mm</td></tr> <tr><td>Shrinkage</td><td>:</td><td>negligible</td></tr> <tr><td>Linear Coefficient of expansion</td><td>:</td><td>ca. 92 x 10⁻⁶ K⁻¹</td></tr> <tr><td>Bond strength (steel/steel N/mm²)</td><td>:</td><td>ca. 20</td></tr> <tr><td>Decontamination</td><td>:</td><td>may be decontaminated after nuclear pollution by using water, ammonia, Sensacon and JIF</td></tr> </table>	Specific Gravity	:	ca.1.9	Bending Tensile Strength (N/mm ²)	:	ca. 25 MPa	Compressive Strength	:	ca. 60 MPa	E-Modulus	:	ca. 6,000 Mpa	Wear resistance (Amsler)	:	ca. 1.5mm	Shrinkage	:	negligible	Linear Coefficient of expansion	:	ca. 92 x 10 ⁻⁶ K ⁻¹	Bond strength (steel/steel N/mm ²)	:	ca. 20	Decontamination	:	may be decontaminated after nuclear pollution by using water, ammonia, Sensacon and JIF																																	
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BASES (substructures)	<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 should be as flat and level as the finished floor is required. Due to the fluid nature of EPO-KEM SYNTHETICFLOOR E/SL some improvement to the flatness of the foundation will be obtained but visually the surface of the product highlights imperfections. Preparation of the base is of paramount importance to the quality of the surface finish. Concrete bases must be cured for a minimum of 1 month before applying EPO-KEM SYNTHETICFLOOR E/SL.</p> <p>STEEL: Steel substructures must be well supported and solid with a minimum of flex possible.</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:</p> <p>Concrete 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 PRIMER GVM/S by roller.</p> <p>Steel Steel substructures must be fully degreased, de-rusted and the rolling skin removed. This is often only achieved by blasting to Class 2½ (min.) after chemical degreasing. Within 4 hours of blasting a layer of EPO-KEM PRIMER EM should be applied. After a minimum of 4 hours and a maximum 3 days curing, the primed steel surface must be finished with EPO-KEM SYNTHETICFLOOR E/SL.</p> <p>REPAIRS: An expert must do any repairs needed on a concrete base. Filling of non-structural cracks and low areas may be done with EPO-KEM SYNTHETIC FLOOR E/SL FILLER. It may be necessary to enlarge cracks to ensure they can be sufficiently filled.</p> <p>APPLICATION: EPO-KEM SYNTHETIC FLOOR E/SL must only be installed by a competent specialist surfacing contractor approved by EPO-KEM.</p>																																																												
DILUTION	All materials must be used as they are supplied, no dilution is permitted.																																																												
MATERIAL PROPERTIES (uncured)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Pot Life</td> <td style="width: 5%;">:</td> <td style="width: 15%;">@ 10°C</td> <td style="width: 15%;">approx. 40 minutes</td> <td style="width: 50%;"></td> </tr> <tr> <td></td> <td></td> <td>@ 20°C</td> <td>approx. 20 minutes</td> <td></td> </tr> <tr> <td></td> <td></td> <td>@ 30°C</td> <td>approx. 10 minutes</td> <td></td> </tr> <tr> <td>Application Temp. Range</td> <td>:</td> <td colspan="3">10 – 30°C (outside this range, consult the manufacturer)</td> </tr> <tr> <td>Mix Ratio</td> <td>:</td> <td>COMPONENT A</td> <td>88.8 parts</td> <td></td> </tr> <tr> <td></td> <td></td> <td>COMPONENT B</td> <td>11.2 parts (by weight)</td> <td></td> </tr> <tr> <td>Curing</td> <td>:</td> <td></td> <td>Light Foot Traffic</td> <td>Full Cure</td> </tr> <tr> <td></td> <td></td> <td>10°C</td> <td>48 hrs</td> <td>14 days</td> </tr> <tr> <td></td> <td></td> <td>20°C</td> <td>24 hrs</td> <td>7 days</td> </tr> <tr> <td></td> <td></td> <td>30°C</td> <td>16 hrs</td> <td>4 days</td> </tr> <tr> <td>Packaging</td> <td>:</td> <td colspan="3">25 kg kits</td> </tr> <tr> <td>Shelf Life</td> <td>:</td> <td colspan="3">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.</td> </tr> </table>	Pot Life	:	@ 10°C	approx. 40 minutes				@ 20°C	approx. 20 minutes				@ 30°C	approx. 10 minutes		Application Temp. Range	:	10 – 30°C (outside this range, consult the manufacturer)			Mix Ratio	:	COMPONENT A	88.8 parts				COMPONENT B	11.2 parts (by weight)		Curing	:		Light Foot Traffic	Full Cure			10°C	48 hrs	14 days			20°C	24 hrs	7 days			30°C	16 hrs	4 days	Packaging	:	25 kg kits			Shelf Life	:	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.		
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COVERAGE	<p>EPO-KEM PRIMER EM 0.1 – 0.2 kg per m² EPO-KEM PRIMER GVM/S 0.2 – 0.25 kg per m² EPO-KEM E/SL 3.5 kg per m² EPO-KEM COATING PU/S or PU/SH (matt or satin) 0.25 kg per m² EPO-KEM COATING PU/S or PU/SH Clear (gloss) 0.1 kg per m² * OPTIONAL</p>																																																																																																																																																																																																																																																																																																												
THINNERS	<p>EPO-KEM THINNERS E is recommended for diluting the primers up to a maximum of 15%. EPO-KEM SYNTHETIC FLOOR E/SL may not be thinned under any circumstances. EPO-KEM THINNERS PU/SH are recommended for thinning EPO-KEM COATING PU/SH up to a maximum of 20% addition rate. EPO-KEM THINNERS PU/SH may also be used for cleaning tools while the materials are still uncured. Other products must not be thinned.</p>																																																																																																																																																																																																																																																																																																												
SAFETY	<p>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.</p>																																																																																																																																																																																																																																																																																																												
CHEMICAL RESISTANCE	<p>The table below represents the resistance of the the SL layer and/or the topcoat 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 that normal housekeeping measures are carried out. If the topcoat is allowed to deteriorate, certain of the chemicals listed below may adversely effect 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[∩]</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[∩]</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[∩]</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[∩]</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)[∩]</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[∩]</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[∩]</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>KEY: U = Unaffected DE = destroyed X = discontinued S/R = softens slightly but recovers fully after drying. S/B = Softens, blisters.</p> <p>NITES: ∩ These solvents will cause swelling and softening of the SL layer. [∩] 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 [∩]	95	U	S/R	S/B	DE	X	X	X	X	Ethanol [∩]	10	U	U	U	U	U	U	S/R	S/B	Ethanol		U	U	U	U	U	U	U	U	Ethoxy Ethyl Acetate [∩]		U	U	U	U	U	U	U	U	Methylene Chloride [∩]		S/R	S/B	DE	X	X	X	X	X	Petrol (leaded) [∩]		U	U	U	U	U	U	U	U	Trichloroethane [∩]		S/R	S/B	DE	X	X	X	X	X	Xylene [∩]		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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Ammonia	10	U	U	U	S/R	S/R	S/B	X	X																																																																																																																																																																																																																																																																																																				
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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 [∩]	95	U	S/R	S/B	DE	X	X	X	X																																																																																																																																																																																																																																																																																																				
Ethanol [∩]	10	U	U	U	U	U	U	S/R	S/B																																																																																																																																																																																																																																																																																																				
Ethanol		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Ethoxy Ethyl Acetate [∩]		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Methylene Chloride [∩]		S/R	S/B	DE	X	X	X	X	X																																																																																																																																																																																																																																																																																																				
Petrol (leaded) [∩]		U	U	U	U	U	U	U	U																																																																																																																																																																																																																																																																																																				
Trichloroethane [∩]		S/R	S/B	DE	X	X	X	X	X																																																																																																																																																																																																																																																																																																				
Xylene [∩]		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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