

## PC HARD® RT ( 5,0 mm )

PC HARD® RT is polyurethane-cement system of slip-resistant industrial floors with high mechanical, chemical and microbiological resistance, intended for use in harsh operating conditions with wet and dry production.

<p><b>Product description</b></p>	<p><b>A polyurethane-cement system of slip-resistant industrial floors with high mechanical, chemical and microbiological resistance, intended for use in harsh operating conditions.</b></p> <p><b>Products included in the PC HARD® RT system:</b></p> <ul style="list-style-type: none"> <li>• <b>PC HARD® PRIMER - polyurethane-cement primer</b></li> <li>• <b>PC HARD® RT - high quality polyurethane-cement base area</b></li> <li>• <b>Quartz aggregates</b></li> </ul>
<p><b>Specification</b></p>	<p><b>PC HARD® RT floor has the following characteristics:</b></p> <ul style="list-style-type: none"> <li>• has easy application and fast binding time;</li> <li>• has the possibility of application on 7-day concrete</li> <li>• prevents the development of bacterial flora</li> <li>• is monolithic - the minimum number of connections</li> <li>• is easy to clean</li> <li>• is slip-resistant</li> <li>• is non-dusty</li> <li>• does not decay</li> <li>• it is resistant to many chemicals</li> <li>• has excellent resistance to abrasion and impact</li> <li>• withstands a wide range of temperatures from -25 ° C to +110 ° C</li> </ul>
<p><b>The field of application</b></p>	<p><b>PC HARD® RT floors are widely used in the food, pharmaceutical and chemical industries, where wet operating conditions occur and high hygiene, chemical and mechanical resistance are required, such as, in:</b></p> <ul style="list-style-type: none"> <li>• factories and plants producing and processing food, with wet and dry production</li> <li>• chemical and pharmaceutical factories and plants;</li> <li>• kitchens;</li> <li>• canteens;</li> <li>• warehouses;</li> <li>• cold store;</li> <li>• washes.</li> </ul>

<p><b>Chemical resistance</b></p>	<p>The <b>PC HARD® RT</b> floor has very good resistance to a wide range of aggressive chemicals found in the agri-food industry, such as:</p> <ul style="list-style-type: none"> <li>• <b>saturated NaCl solution,</b></li> <li>• <b>ethanol,</b></li> <li>• <b>nitric acid ,</b></li> <li>• <b>acetic acid</b></li> <li>• <b>lactic acid,</b></li> <li>• <b>sodium hydroxide,</b></li> <li>• <b>potassium hydroxide,</b></li> <li>• <b>ammonia.</b></li> <li>• <b>animal and vegetable fats and oils</b></li> </ul> <p>Full chemical resistance table available on request.</p> <p>Note: in the case of some very aggressive chemicals, surface softening and discoloration may occur depending on the type of spilled substance and standards of cleanness. Full chemical resistance table available on request.</p>
<p><b>Mechanical resistance</b></p>	<p>PC HARD® RT floor systems have been developed to provide the highest possible mechanical resistance and high temperature resistance. PC HARD® RT has a high impact, abrasion, bending and compressive resistance. The PC HARD® RT floor is completely resistant to temperatures up to 110°C and can be washed with steam. It is also suitable for cold rooms with temperatures down to -25°C.</p>
<p><b>Capillary absorption and water permeability</b></p>	<p>The structure of the PC HARD® RT floors ensures virtually zero absorption and water permeability according to EN 1062-3.</p>
<p><b>Slip resistance</b></p>	<p>Slip resistance tests of PC HARD® RT have been carried out in accordance with two standards DIN 51130 and DIN 51097 and have obtained <b>class R11 / B.</b></p>
<p><b>VOC emission</b></p>	<p>All PC HARD® floors are solvent-free and have the <b>highest VOC (VOC) emissions requirements for floor systems.</b></p> <p>PC HARD® RT meets the highest requirements set for internal industrial floor systems in accordance with:</p> <ul style="list-style-type: none"> <li>• <b>Directive 2004/42 / EC,</b></li> <li>• <b>EN ISO 16000-6</b></li> </ul>
<p><b>HACCP Certificate</b></p>	<p><b>The polyurethane - cement PC HARD® flooring systems are HACCP certified, the (A+) classification of VOC / VOC emissions.</b></p> <p><b>The unique composition of PC HARD® RT prevents the development of bacterial flora on their surface.</b></p>
<p><b>Hygienic properties</b></p>	<p>PC HARD® flooring systems have a Hygienic Certificate and are dedicated to professional internal applications in production and processing plants operating in the following industries: meat / poultry / fish / bakery / confectionery / dairy / pharmaceutical / chemical.</p>

	<p>Based on the results of tests carried out in the Laboratory of Microbiological Food and Production Research (ZOI test), PC HARD® RT floors effectively inhibit the growth of many strains of bacteria, including:</p> <ul style="list-style-type: none"> <li>• <b>Escherichia coli,</b></li> <li>• <b>Listeria monocytogenes,</b></li> <li>• <b>Enterobacter aerogenes,</b></li> </ul> <p>that may occur in food and agricultural processing. A full table of bacterial types is available on request.</p>	
<b>Technical data PC HARD® RT</b>	<ul style="list-style-type: none"> <li>• <b>Impact resistance according to EN ISO 6272-1</b></li> </ul>	<b>Class II: ≥ 10 Nm</b>
	<ul style="list-style-type: none"> <li>• <b>Capillary absorption and liquid water permeability according to EN 1062-3</b></li> </ul>	<b>0.003 kg/m<sup>2</sup> x h<sup>0,5</sup></b>
	<ul style="list-style-type: none"> <li>• <b>Class of reaction to fire according to PN-EN 13051-1+A1:2010</b></li> </ul>	<b>Bfl-S1</b>
	<ul style="list-style-type: none"> <li>• <b>Peel adhesion according to PN EN 1542</b></li> </ul>	<b>≥ 1.5 N/mm<sup>2</sup></b>
	<ul style="list-style-type: none"> <li>• <b>Resistance to compression according to EN 196-1</b></li> </ul>	<b>~95 MPa</b>
	<ul style="list-style-type: none"> <li>• <b>Bending resistance according to EN 196-1</b></li> </ul>	<b>~27 MPa</b>
	<ul style="list-style-type: none"> <li>• <b>Emissions of VOC according to EN ISO 16000-6</b></li> </ul>	<b>A+ Class</b>
	<ul style="list-style-type: none"> <li>• <b>Resistance to abrasion according to EN ISO 5470-1</b></li> </ul>	<b>460 mg</b>
	<ul style="list-style-type: none"> <li>• <b>Anti-slip class according to DIN 51130</b></li> </ul>	<b>R11</b>
	<ul style="list-style-type: none"> <li>• <b>Anti-slip class according to DIN 51097</b></li> </ul>	<b>B</b>
<b>Mixing and applying</b>	Complete application instructions are only available for licensed and authorized contractors.	
<b>Binding time</b>	<p>Under temperature conditions from 15°C to 25°C the following values should be taken:</p> <ul style="list-style-type: none"> <li>• Pedestrian traffic - 16 hours</li> <li>• Light vehicle traffic – 24 hours</li> <li>• Full cure - 7 days</li> </ul>	
<b>Packaging</b>	<p>All components of the PC HARD® RT floor are delivered in sets of components (A + B + C + D), in factory sealed containers marked with net weights:</p> <ul style="list-style-type: none"> <li>• Component A - 2.60 kg</li> <li>• Component B - 2.70 kg</li> <li>• Component C - 19.5 kg</li> <li>• Component D - 0.15 kg</li> </ul>	
<b>Colour range</b>	<p>PC HARD® RT is available in 8 basic colors according to the Lainer template available on request. In addition, there is the possibility of individual selection of dyed quartz aggregates according to the Client's recommendations.</p>	

<b>Cleaning</b>	In case of necessity of cleaning the substrate or tools from uncured materials, suitable solvents and cleaners may be used. Such operations shall preferably be carried out outside the area of work in a designated place. Dirt after curing of the material is insoluble and can be mechanically cleaned. Information on suitable solvents is available on request
<b>Rules on health and safety at work</b>	Some components of the floor masses in the uncured state are harmful to health. In particularly for susceptible persons, they may cause sensitization. Special precautions should be taken during work. The rooms where the floors are prepared and made must be well ventilated. Employees should use: clothes, shoes, glasses and protective gloves. For detailed safety precautions, see the Material Safety Data sheet. Polyurethane-cement floor coverings after curing are physiologically indifferent to the human body. Each material and ingredient which is supplied is accompanied by safety data sheets containing detailed safety information.
<b>Storage</b>	All materials included in the PC HARD® RT system should be stored in dry and shaded places. The optimum temperature is 10-15°C.
<b>Environmental impact</b>	The PC HARD® RT floor is solvent-free and does not pose a health and environmental hazard by meeting the highest VOC emissions requirements for indoor floor systems. PC HARD® K2 has the highest class A +VOC emissions in accordance with EN ISO 16000-6
<b>Colours</b>	<p>PC HARD® RT is available in 8 basic colours:</p> <ul style="list-style-type: none"> <li>• Blue</li> <li>• Green</li> <li>• Creamy</li> <li>• Light grey</li> <li>• Dark grey</li> <li>• Red</li> <li>• Yellow</li> <li>• Orange</li> </ul> <p>PC HARD® floor systems are dedicated to buildings and rooms where the highest chemical and thermal resistance as well as high hygiene are required. Therefore, in areas in corners exposed to direct UV rays, there may be some differences in shades and discoloration of the applied floor.</p>
<b>Reports and certificates:</b>	<p><b>HK/B/0115/2016</b> - Hygienic Certificate issued by the National Institute of Hygiene of the National Institute of Public Health</p> <p><b>SG-97/16/N</b> - Classification report on reaction to fire issued by the Institute of Ceramics and Building Materials</p> <p><b>1074/2016</b> - Mechanical resistance test report issued by SPEKTROCHEM Coatings, Adhesives and Polymers Research and Development Centre</p> <p><b>193/L2017</b> - Report on laboratory tests of VOC emissions and strength tests issued by SPEKTROCHEM Coatings, Adhesives and Polymers Research and Development Centre</p> <p><b>PL17/0573</b> - HACCP certificate issued by SGS Polska Sp. z o.o. Certification and Business Enhancement</p>

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