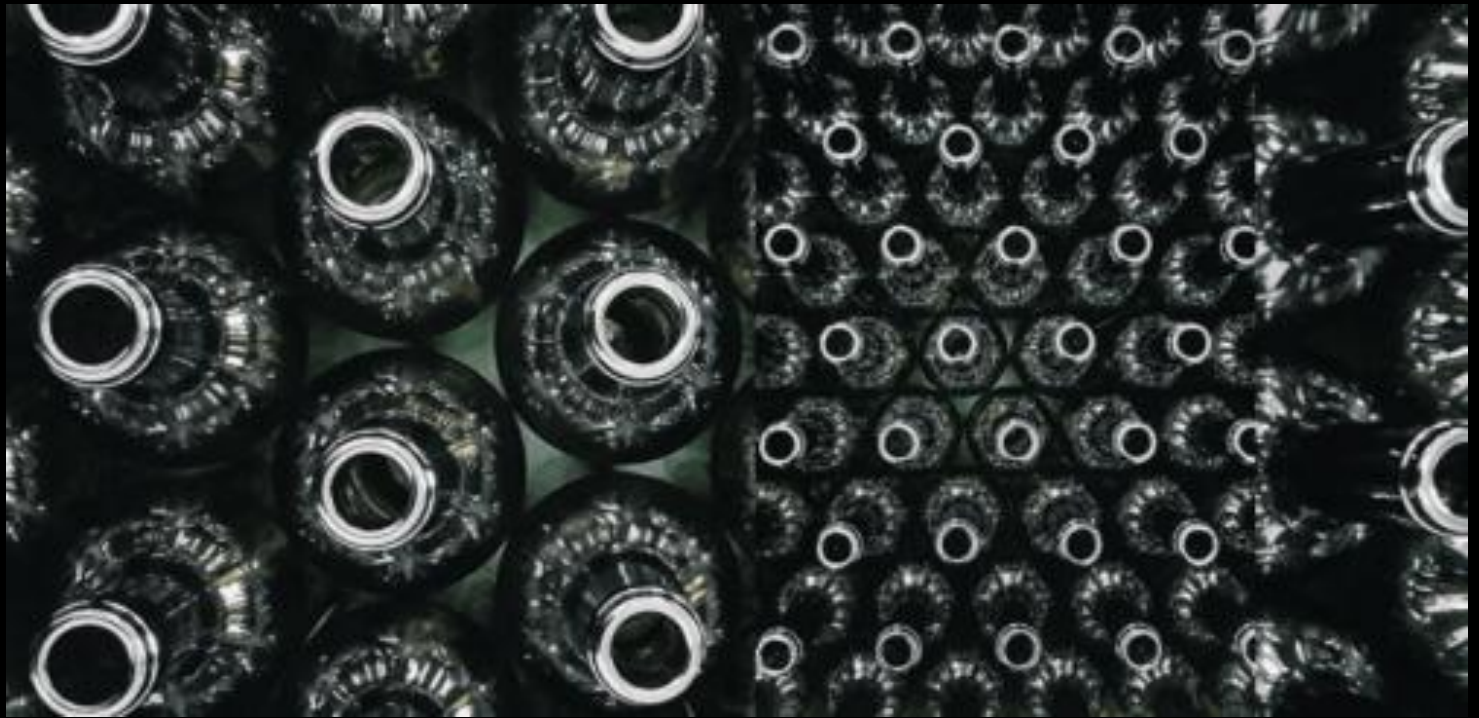




pc—hard® ag+

Featuring high color stability, manufactured based on HACCP requirements, the anti-slip system with exceptional resistance to chemical action and temperatures up to 100°C, intended for application in wet zones. Meets the highest standards for VOC emissions < 20 g/l, Class A+.

The system is durable and resistant to strong impacts
PC—Hard® AG+ is available in thicknesses 6 and 9 mm.
Unique polyurethane—cement system composition
PC—Hard® AG+ system is safe for the environment and employees, it is odorless and therefore suitable for carrying out makeovers without interrupting facility operation.



A – SYSTEM CHARACTERISTICS

	temperature resistant		resistant to chemical action
	resistant to mechanical action		bacteriostatic
	anti-slip		monolithic
	quickly available to use		available in eight colors

B – TECHNICAL DATA

Abrasion resistant	as per PN-EN ISO 5470-1	<3000 mg
High compressive strength	as per PN-EN 196-1	51 MPa
High flexural strength	as per PN-EN 196-1	15 MPa
Capillary absorption and water permeability	as per PN-EN 1062-3	0,003 kg/m ² x h ^{0,5}
Reaction to fire classification	as per PN-EN 13501-1+A1:2010	B _{fl} -s1
Impact resistance	as per PN-EN-ISO 6272-1	Class II: ≥ 10 Nm
Peel adhesion	as per PN-EN 1542	≥ 1,5 N/mm ²
Anti-slip class*	as per DIN 51130	R11-R13
Anti-slip class	as per PN-EN 1504-2	Class I: ≥ 40
VOC emission	as per PN-EN-ISO 16000-6	Class A+

Thermal resistance:
PC—Hard® AG+ 6 mm thick is resistant to liquid leaks and spills in the temperature range from -25°C to + 90°C.
PC—Hard® AG+ 9 mm thick is resistant to liquid leaks and spills in the temperature range from -40°C to +120°C.

Warning: samples were tested after 28 days at temperature 20°C
* depending on the aggregate used

C — APPLICATION

The bacteriostatic composition of the PC—Hard® AG+ system prevents the growth of bacteria and fungi on its surface and therefore meets the highest standards of hygiene, at the same time limiting odors. The system is primarily intended for wet areas of manufacturing and processing in the following industries:

- | | |
|-------------------------|------------------------|
| ● poultry | ● fruit and vegetables |
| ● dairy | ● meat production |
| ● alcohol and beverages | ● chemical |
| ● fish | |

D — CERTIFICATES AND STANDARDS

- Certificate issued by the Medical University in Gdańsk, Institute of Environmental Toxicology — 301/322/307/2021
- Reaction to fire classification report issued by the Institute of Ceramics and Construction Materials — SG-84/16/N
- Mechanical strength testing report issued by SPEKTROCHEM Research and Development Center for Paints, Adhesives and Polymers — 1074/2016
- VOC emission report and strength testing report issued by SPEKTROCHEM Research and Development Center for Paints, Adhesives and Polymers— 193/ L2017-A1
- HACCP Certificate issued by SGS Polska Sp. z o.o. /certification and Business Enhancement — PL17/0573

E — SUBSURFACE

- | | |
|----------------------|---------------|
| ● Subsurface quality | ● Preparation |
|----------------------|---------------|
- The base layer is typically concrete or polymer. The base layer must be clean and free of dust and other loose particles. The concrete layer should feature at least 1,5 N/mm² of tensile strength. It is absolutely necessary to remove any kind of grease and oil contamination, deposits of paint, chemicals and laitance.
- The best method of subsurface preparation is dust-free shot peening. It is permissible to use other methods of preparation, e.g. milling, manual or machine grinding, etc.

F — APPLICATION INSTRUCTION

● Application conditions

The system can be applied onto concrete 7 days after pouring
Ambient temperature from +10°C to +30°C
Subsurface temperature from +10°C to +30°C
Maximum relative air humidity 85%
Dew point - subsurface and uncured flooring temperature must exceed the dew point by 3°C at all times.

● System components:

- PC—Hard® Primer primer layer
- PC—Hard® PL main layer
- Quartz aggregate
- PC—Hard® AG encapsulating layer
- PC—Hard® TC 5 encapsulating varnish

● Consumption:

- PC—Hard® Primer ~0,4 kg/m²
- Quartz aggregate ~1,5 kg/m²
- PC—Hard® PL ~7,8 kg/m²
- Quartz aggregate ~2,0 kg/m²
- PC—Hard® AG ~0,7 kg/m²
- PC—Hard® TC 5 ~0,15 kg/m²

- PC—Hard® AG+ system components are provided in sets which are ready to mix. Do not separate the packaging into smaller portions. Processing time:
 - PC—Hard® Primer ~10-15 min
 - PC—Hard® PL ~10-15 min
 - PC—Hard® AG ~10-15 min
 - PC—Hard® TC 5 ~20 min
- Warning: product application suitability times are provided assuming temperature +18°C.

● Tool cleaning

Tool cleaning after work should be carried out in a designated area away from manufacturing facilities and place of application. Use e.g. xylene or acetone to clean the tools. During washing and cleaning, observe the instructions provided by the solvent manufacturer and avoid spillage on newly applied flooring. Handling of used component packaging is provided in the MSDS of each component.

Warning: detailed application instructions are available for authorized contractors.

G — FULL CURE TIME

In temperature conditions between 15°C and 25°C, assume the following values:

- | | |
|-------------------------|----------|
| ● Pedestrian traffic | 16 hours |
| ● Light vehicle traffic | 24 hours |
| ● Full cure | 7 days |

H — PACKAGING / WEIGHT

PC—Hard® AG+ is sold in sets of components ready for mixing in proportions with the following weights:

- PC—Hard® AG+ component A 2,30 kg;
- PC—Hard® AG+ component B 2,70 kg;
- PC—Hard® AG+ component C 12,60 kg;
- PC—Hard® AG+ component D 0,60 kg;
- PC—Hard® TC 5 components A+B 20,70 kg.

I — STORAGE

All the materials comprising the PC—Hard® AG+ system should be kept in dry and shaded areas. Optimal storage temperature is 15-20°C. Storage time for unopened and undamaged containers is 24 months.

J — REMARKS

Please note that coatings exposed to UV light may discolour locally (yellowing or fading), which will not affect their other properties.

Some of the poured flooring components are harmful to health when not fully cured. May cause allergies in particularly susceptible individuals. Exercise special care when carrying out work. Facilities in which poured flooring is prepared and applies should be well ventilated. Employees should use: protective clothing, footwear, glasses and gloves. Detailed safety instructions are provided in the component MSDS. Polyurethane-cement flooring compounds are physiologically inert to the human body when fully cured. For each material and component, MSDS are provided with detailed OHS information.

K — FINAL REMARKS

LAINER Spółka z ograniczoną odpowiedzialnością, Sp. K. guarantees the best quality of supplied materials and assumes full responsibility for any defects in found offered products. Please be advised, due to high variance of installation conditions and applications of LAINER products, information provided herein should be considered as general application guidelines. The Customer assumes sole responsibility for the use of product without prior consultation with LAINER in areas of applications different than provided in this data sheet as well as for any consequent damages resulting therefrom. All the materials are to be used and handled exclusively by trained and experienced contractor teams. Directly prior to the application, the Customer is obligated to check the condition of the subsurface, climate conditions and material quality.

All the descriptions, illustrations, photographs, data, ratios, weights, etc. provided herein are subject to change without notice.

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