Variant System

Description and uses

The Acrylicon Variant System is an Industrial grade, mono-colour, self-levelling system which can be installed with or without scattered flakes and cures within 2 hours. The thickness of the floor may vary from 1mm to 3mm, depending on the level of impact resistance required by the customer. With an extremely high compressive strength the system is ultra-cleanable even with heavy traffic. The slip resistance can be adjusted based on the customer's needs and specified regulations.

Designed for heavy industry and clean environments, for example heavy engineering, laboratories, clean rooms, paper mills, pharmaceutical and other areas where hygiene and cleanability are paramount.

Specifications

Product	Acrylicon Variant System - Preparatory work and application in accordance with suppliers instructions.
Finish	Satin
Thickness	1-3 mm
Slip Resistance	For added slip resistance our Variant Plus option is available in different grades.
Colour	A wide range of options are available, consult the AcryliCon Solid colour chart for details.
Supplier	AcryliCon Polymers GmbH (Germany)

Key features and benefits

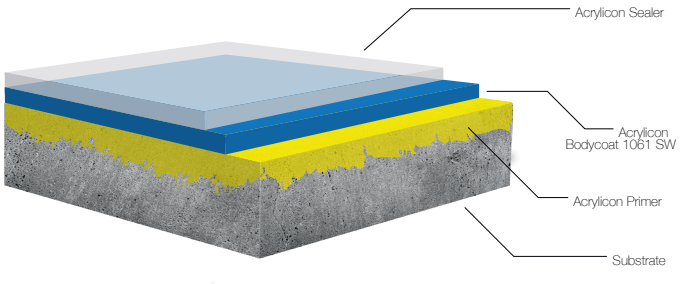
- Hard wearing - Excellent resistance to abrasion and fire.
- 1-2 hours cure time - rapid installation and minimum downtime.
- Decorative finish - great aesthetics, UV stable and available in a wide range of colours.
- Low emissions - our products are solvent-free and contain very low VOC's.
- Chemical bond/cure - a truly seamless floor with no cold joints and virtually no risk of delamination.
- Slip resistant - our floors exceed minimum safety requirements and can be tailored to each area.
- Long lasting - our floors do not degrade or become brittle with use.

To find our nearest AcryliCon office please visit our website:

www.acryliconpolymers.com

AcryliCon®
Quality Resin Solutions

System



Cleaning and Maintenance

Clean regularly using a mechanical Scrubber/Dryer. Cylindrical machines with a built in vacuum are best suited in combination with a neutral degreaser. Contact your nearest AcryliCon office for advice.

Cure Time

The Variant System is fully cured within 2 hours after installation and may be put into full use by the customer.

Properties and Application

Acrylicon Primer, Acrylicon Bodycoat 1061 SW and Acrylicon Sealer are transparent, solvent-free, medium viscosity, and non-toxic when cured. Pigmented Acrylicon Bodycoat 1061 SW is used as a primer to achieve durable, single-color floors. Acrylicon Sealer is used as a colorless, wear-resistant sealant. The curing time is approximately one hour at 20°C/68°F (ambient temperature). The lowest processing temperature (substrate and material) is 0°C. AcryliCon can sometimes offer solutions for installations at temperatures as low as -25°C.

Substrate

The concrete strength must not be less than 22.5N/mm^2 (3250psi). Cores may be required for laboratory testing if any doubt exists. The substrate must be solid, free of dirt, oil, dust and other contaminants that would prevent bonding. It is necessary to protect the substrate from rising moisture and ground water pressure. AcryliCon systems can be applied onto 28 day old concrete at a Relative Humidity of up to 95%. Should there be any doubt about the moisture in the concrete, an insulated hygrometer is recommended for testing the vapour leaving the substrate. In situations requiringrapid installation, AcryliCon can provide fast cure systems as alternatives to traditional concrete. AcryliCon systems can also bond to other substates. For further advice please contact your nearest AcryliCon office.

Key features and benefits

Compressive Strength EN196-1 (DIN1164)	98 N/mm^2 / 14,214 psi
Flexural Strength EN 196-1 (DIN1164)	37 N/mm^2 / 5,367 psi
Water Permeability DIN / EN 1062-3:2008	<0.001 kg/(m^2·h$^{0.5}$)
Tensile Adhesion Strength DIN / EN 1542:1999	Concrete: >2.0 MPa
Slip Resistance DIN 51130 (German Ramp Method) Dry	R9 - R13 classification
Slip Resistance BS 7976 (TRL Pendulum Test)	Dry: 88 Wet: 68
Temperature Resistance	Tolerant of sustained temperatures up to 60°C/140°F
Abrasion Resistance EN ISO 5470-1 (Taber)	166 mg (average mass loss)
Shore D DIN EN 48-4, ISO 868	85
Chemical Resistance EN13529	Excellent
Fire Class EN 13501-1	Efl - s1 (standard) Dfl - s1 (slip resistant)

The technical properties of the AcryliCon system are evaluated to EN or ISO standards and the results are average values, delivered under proper installation procedures and recommended conditions.

Life Expectancy

In excess of 20 years, subject to correct installation conditions and substrate preparation. Life expectancy is generally influenced by the use of the system and maintenance regime.

Disclaimer

This information and all further technical advice is based on intensive research and many years experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make technical alterations during the course of further development. The customer is not released from the obligation of checking our data and recommendations for the suitability of their own particular application. Performance of the product described herein should be verified by testing, which we recommend be carried out only by qualified experts and is the sole responsibility of the customer.

ALL-CERT DIN EN ISO 9001 DIN EN ISO 14001

This product has been manufactured under the controls established by an ALL-CERT approved management system that conforms with EN1504-2, ISO 9001:2015 and ISO 14001:2015.

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