Industry System

Description and uses

The Acrylicon Industry System is a trowel applied mortar system with an excellent compressive strength and tensile strength in bending. It is characterised by very low linear shrinkage, high wear resistance and unparalleled longevity. Due to AcryliCon's ability to chemically bond it can be combined with other AcryliCon Systems to provide a decorative finish. The cure time is under 2 hours, even at temperatures down to -25°C, meaning any downtime is reduced to a minimum.

Designed to withstand heavy duty mechanical stress, both indoor and outdoor. Suitable for use in offshore applications, heavy engineering, freezers and as a heavy duty screed (up to 12s0 mm thickness) for other AcryliCon Systems.

Specification

Product	Acrylicon Industry System - Preparatory work and application in accordance with suppliers instructions.
Finish	Matt
Thickness	5 - 25 mm as standard for offshore use. As screed up to 120 mm with addition of aggregates.
Slip Resistance	For added slip resistance our Industry Plus option is available in different grades.
Colour	A wide range of options are available, consult the AcryliCon Flakes colour chart for details.
Supplier	AcryliCon Polymers GmbH (Germany).

Key features and benefits

- Hard wearing - exceptional resistance to chemicals, abrasion, impact and fire.
- 1-2 hours cure time - rapid installation and minimum downtime.
- High compressive strength - excellent durability and cleanability.
- Slip resistant - our floors exceed minimum safety requirements and can be tailored to each area.
- Chemical bond/cure - a truly seamless floor with no cold joints and virtually no risk of delamination.
- Low emissions - our products are solvent-free and contain very low VOC's.
- Long lasting - our floors do not degrade, become brittle or porous with use.

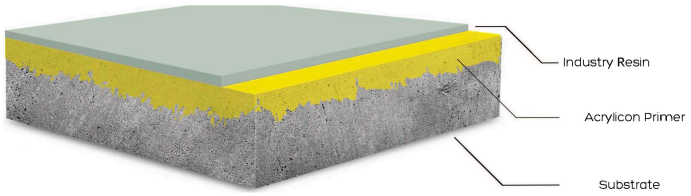
To find your nearest AcryliCon office please visit our website:

www.acrylicon.com

AcryliCon®
Quality Resin Solutions

System

Industry System



Cleaning and Maintenance

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

Cure Time

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

Properties and Application

Acrylicon Industry System consists of a powder component which contains quartz sand up to 1.8 mm along with a low viscosity, solvent free, 2-component modified methyl-methacrylate resin. Acrylicon Sealer is used as a colourless, wear resistant seal coat if required. The curing time is about 1 hour at 20°C/68°F (ambient). AcryliCon can sometimes provide solutions for installations at temperatures down to -25°C /-13°F.

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 requiring rapid installation, AcryliCon can provide fast cure systems as alternatives to traditional concrete. AcryliCon systems can also bond to other substrates. For further advice please contact your nearest AcryliCon office.

Technical Information

Compressive Strength EN196-1 (DIN1164)	83 N/mm^2 12,038 psi
Flexural Strength EN 196-1 (DIN1164)	27.5 N/mm^2 3,990 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 Steel: >2.0 Mpa
Temperature Resistance	Tolerant of sustained temperatures up to 60°C/140°F
Chemical Resistance EN13529	Excellent
Fire Class EN 13501-1	Bfl - s1

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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