Flake 'fire retardant' System

Description and uses

The Acrylicon Flake 'fire retardant' System is 2-3 mm thick and encapsulates decorative flakes within its chemically bonded monolithic structure. The system is designed especially for common areas with special requirements for fire classifications, like enclosed pathways or common areas which will also function as escape ways in case of fire. It combines unparalleled longevity with great aesthetics and is available in a multitude of colours. By using our exclusive blend of colour flakes, we are able to provide granite or marble style floors in a fraction of the time normally associated with the traditional systems. Designed for heavy foot traffic and medium industry, for example, supermarkets, shopping centers, retail, hospitals, stadiums, schools, mass-transit, bathrooms and other areas where aesthetics, durability and cleanability are paramount.

Specification

Product	Acrylicon Flake 'fire retardant' System Preparatory work and application in accordance with suppliers instructions.
Finish	Satin
Thickness	2-3 mm
Slip Resistance	For added slip resistance our Flake 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

- High compressive strength - excellent durability and cleanability.
- 1-2 hours cure time - rapid installation and minimum downtime.
- Decorative Finish - great aesthetics, UV stable and available in a wide range of colours.
- 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.

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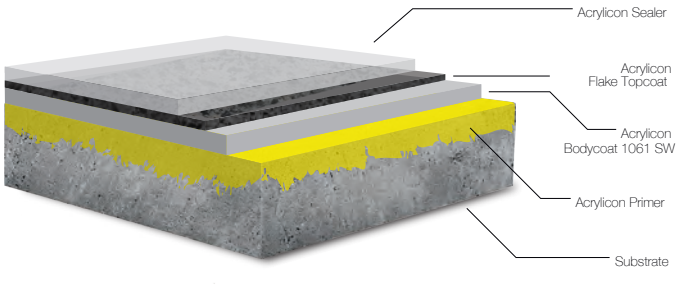
www.acrylicon.com

AcryliCon®
Quality Resin Solutions

System



Cleaning and Maintenance

Clean regularly using a mechanical Scrubber/Dryer. Cylindrical machines with built in a vacuum are best suited in combi- nation with a neutral or alkaline degreaser, depending on type of production. Contact your nearest AcryliCon office for advice.

Cure Time

The Flake 'fire retardant' 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 Flake Topcoat as well as Acrylicon Sealer Superior are transparent, solvent-free, medium viscosity and non-toxic when cured. Acrylicon Bodycoat 1061 SW is a slightly elasticised resin into which coloured decorative flakes can be fully or partially broadcast. Acrylicon Flake Topcoat is used as a colourless topcoat. Acrylicon Sealer is then used as a wear resistant sealer. The fire-retardant filler is essential for the fire retardant performance of this system. The curing time is about 1 hour at 20°C/68° F (ambient). The lowest application temperature (substrate and material) is 0°C/41°F. 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/mm2 (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 vapor 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.

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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Technical Information

Compressive Strength EN196-1 (DIN1164)	94 N/mm^2 / 13,635 psi
Flexural Strength EN 196-1 (DIN1164)	30 N/mm^2 / 4,350 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	Bfl - s1 (standard)

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.

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