

To whom it may concern

Neustadt-Glewe, 08.05.2020

Sustainability

AcryliCon Polymers GmbH is committed to **reducing its impact on the environment**. Our commitment to the environment extends to our customers, our staff and the community in which we operate.

AcryliCon was founded in **Norway** and so sustainability is at the **heart** of our core company values and is built into every flooring system we **design, manufacture and install world-wide**.

For decades our clients have benefitted from AcryliCon flooring systems that are **solvent free, low VOC and non-toxic**. Most AcryliCon Systems have a life expectancy in excess of 20 years. If the floor suffers any mechanical damage, it can be **easily repaired and quickly refurbished**, avoiding the constant removal and maintenance required with many other types of resin floor products. This helps to keep the demand on the world's resources as **low** as possible.

Our clients have turned to AcryliCon after having bad experiences with other types of flooring that can delaminate, wear at the surface and become difficult to clean – requiring increased cleaning chemicals and more frequent washing. These floors have to be mechanically removed and disposed of before they can be replaced. AcryliCon products, on the other hand, remain **easy to clean** for the **full life expectancy** of the floor. This amounts to **considerable savings** in cleaning water and chemical use over the lifecycle of the floor.

By using AcryliCon's flooring systems, our clients become **more sustainable** themselves. Not only do our products **last considerably longer** than many other types of resin floors, they become **totally inert** once cured and have been certified (**M1, BREAAM and CE** - Europe) to be **safe for the indoor environment** and contribute to the **overall sustainability** of a building.

We are proud to be one of the first Resin Flooring companies to provide **Environmental Product Declarations (EPD's)** for all our main flooring systems, leading the way within our industry.

At our modern production facility in Germany, the manufacturing process has been designed to create **hardly any waste**, and when it comes to waste disposal, we go the extra mile to **recycle** what little we do generate. Almost all of the raw materials we use are procured within a close proximity to our production facility.

Yours sincerely,



Bjørn Hegstad, Managing Director

Please find attached on the next pages the certificates referenced above.

Issuing office: Notified body no. 0615
Bureau Veritas Certification Denmark A/S
Oldenborggade 25-31, DK-7000 Fredericia

BUREAU VERITAS
Certification



Certificate of conformity of the factory production control

Annex to certificate no.

0615 – CPR – 9506

AcryliCon Polymers GmbH
Lederstrasse 19, 19306 Neustadt-Glewe, Germany.

Products / Systems:

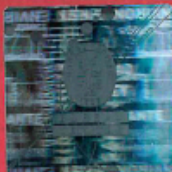
AcryliCon Decor System
AcryliCon Variant System
AcryliCon Flake System
AcryliCon Industry System
AcryliCon Levelling Screed System

All the above-mentioned products / systems are adequate to the principles for use referred to in table 1 in the standard:

Moisture control (2.2)
Physical resistance (5.1)
Resistance to chemicals (6.1)
Increasing resistivity (8.2)



Certificate no. **0615-CPR-9506** Date **24.09.2018**



Manija Rahman
Quality Department, Manija Rahman

 **DANAK**
PROD Reg.nr. 7009

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Issuing office: Notified body no. 0615
Bureau Veritas Certification Denmark A/S
Oldenborggade 25-31, DK-7000 Fredericia

BUREAU VERITAS
Certification



Certificate of conformity of the factory production control

0615 – CPR – 9506

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Products and systems for the protection and repair of concrete structures - Part 2: Surface protection systems for concrete

(See products/systems on page 2 to this certificate)

placed on the market under the name or trade mark of

AcryliCon Polymers GmbH
Lederstrasse 19, 19306 Neustadt-Glewe, Germany

and produced in the manufacturing plant

Lederstrasse 19, 19306 Neustadt-Glewe, Germany

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1504-2:2004

under system 2+ are applied and that the factory production control (FPC) is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 06.10.2014 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

To check the validity of this certificate please call (+45) 77311000 or use www.bvcertforum.dk/ref/ref.asp.

Certificate no. **0615-CPR-9506** Date **24.09.2018**



Marija Rahman
Quality Department, Marija Rahman

 **DANAK**
PROD Reg.nr. 7009

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GERMANY

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8464 Galten
Denmark

VOC@eurofins.com
www.eurofins.com/VOC-testing

VOC TEST REPORT

VOC Content

13 December 2017

1 Sample Information

Sample name	Decor System
Sample no.	392-2017-00449002
Production date	18-09-17
Batch No.	17001-Decor7-09 - cp21735 - 1704030782
Sample reception	06/12/2017

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
SCAQMD Rule 1113	Pass	February 2016
LEED v4 (VOC Content)	Pass	

Full details based on the testing and direct comparison with limit values are available in the following pages



Morten Sielemann
Analytical Chemist



Janne Rothmann Norup
Analytical Service Manager

The results are only valid for the tested sample(s).

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392-2017-00449002_XG_EN_rev1

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5 Results

5.1 VOC content

	Remarks on the test results	Results	Unit
Density	Supplied by the Customer	0.980	g/mL
Water Content	Supplied by the Customer	0	% (w/w)
Exempt compounds	Assumed to be 0	0	% (w/w)
Solids Content	Tested by the lab	99.9	% (w/w)
VOC content (less water)	Calculated based on the results above	< 1	g/L
VOC content	Calculated based on the results above	0.10	% (w/w)

5.2 Comparison with Limit Values of VOC Content (less Water)

Parameter	Results	Product type	Regulation or protocol	VOC limit
	[g/L]			[g/L]
VOC content	< 1	Floor Coatings	SCAQMD Rule 1113	50

The results are only valid for the tested sample(s).

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Environmental Product Declaration

as per ISO 14025 and EN 15804

Owner of the declaration:	AcryliCon Polymers GmbH
Publisher:	BCS Öko-Garantie GmbH - Ecobility Experts
Programme holder:	BCS Öko-Garantie GmbH - Ecobility Experts
Declaration number:	EPD-AcryliCon Polymers GmbH-050-EN
Issue date:	01.11.2018
Valid to:	31.10.2023

AcryliCon Décor System

This Environmental Product Declaration (EPD) refers to 1 m² AC Décor System from AcryliCon Polymers GmbH. The AcryliCon Décor System is a 4mm quartz filled, trowel applied floor coating with excellent slip resistance values, longevity and cleanability.



AcryliCon Décor System installed in 2004, Austevoll Fiskeindustri AS in Norway, Picture taken in 2010.

RAKENNUSTIETO

The Building Information Foundation RTS sr

**EMISSION CLASSIFICATION
OF BUILDING MATERIALS****Kausalan Pinnoite Oy**

The classification working group set up by the Building Information Foundation RTS sr has approved the following product:

AcryliCon Dekor System

as belonging to emission class M1 for building materials.

The classification is valid until September 1, 2021.

Kausalan Pinnoite Oy has the right to equip its classified products with the classification mark and to use this classification mark when marketing these products.

The decision is in line with the requirements laid down in the Classification of Indoor Climate 2018 and the Classification of Building Materials: General Instructions.

THE BUILDING INFORMATION FOUNDATION RTS sr



Markku Hedman
Director General



Arja Valtanen
Secretary of the Classification
Working Group

The Building Information Foundation RTS sr, P.O.B 1004, FI-00101 Helsinki, Finland
Tel. +358 207 476 400, m1.rts.fi



Confirmation

BREEAM® NOR 2016

On 5 February 2020, Eurofins Product Testing A/S received a sample of a flooring system with the product name:

Acrylicon Flake System

supplied by

AcryliCon Polymers GmbH

The sample was supplied as being representative of the manufactured product, and it has been tested in accordance with the relevant ISO 16000-3 -6 -9 -11 and EN 16516 in the latest versions (See test report no. 392-2020-00017301_N_EN).

The test results of the tested product indicate that the product qualifies for BREEAM-NOR New Construction 2016 v1.1 specifications on VOC emissions complying with:

BREEAM NOR 2016 requirements on "Volatile Organic Compounds" in Hea 02 criteria:

- TVOC was below the limit of 200 $\mu\text{g}/(\text{m}^2\text{h})$ after 28 days
- Formaldehyde was below the limit of 50 $\mu\text{g}/(\text{m}^2\text{h})$ after 28 days
- Carcinogenic substances was below the limit of 5 $\mu\text{g}/(\text{m}^2\text{h})$ after 28 days

13 March 2020



Peter Alexander Skov
Analytical Chemist, MSc. Eng. Chemistry



Rasmus Stengaard Christensen
Analytical Service Manager, MSc in Chemistry

Eurofins Product Testing A/S • Smedeskovvej 38, 8464 Galten, Denmark • Tel. +45 70 22 42 76
www.product-testing.eurofins.com



AcryliCon LEED Checklist v4.1

U.S. GREEN BUILDING COUNCIL

LEED Project Checklist Fact Sheet v4.1

AcryliCon Industrial Flooring

BUILDING DESIGN AND CONSTRUCTION [BD+C]

EA Credit: Optimize Energy Performance (1-4 points), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To achieve increasing levels of energy performance beyond the prerequisite standards to reduce environmental and economic harms associated with excessive energy use.

Description: Concrete's thermal properties help with an energy efficient design, especially when combined with geothermal heating and cooling systems or other cutting edge, energy-related building systems that reduce peak demand for energy throughout the facility. An AcryliCon Floor System retains the inherent thermal properties of concrete. Additionally, the highly reflective finish of AcryliCon floors can reduce the requirement for ambient lighting fixtures, saving on both the initial cost of lighting fixtures as well as the long-term electricity usage.

MR Prerequisite: Construction and Demolition Waste Management Planning, New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

Description: An AcryliCon floor can contribute to the construction and demolition waste management plan because it is created from existing materials and eliminates the introduction of new material which will have to be removed and replaced in the future. AcryliCon is a durable floor covering that can withstand many years of heavy use. New flooring will be an option, not a necessity. A new owner can also reapply a new AcryliCon floor over the old creating a new uniform surface without removing the original AcryliCon flooring. AcryliCon allows for the salvaging of components from project renovations and provides the ability to reuse them in the project or for other projects.

MR Credit: Building Life-Cycle Impact Reduction, (2-5 points), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To encourage adaptive reuse and optimize the environmental performance of products and materials in order to reduce impact on categories such as global warming, ozone layers, land and water sources and the depletion of nonrenewable energy resources.

Description: AcryliCon covers Environmental Product Declaration (EPD) Option 1 (both Product-specific Type III EPD and Industry-wide Type III EPD) and Option 2 with conformation under EN15804 and ISO 14025.



AcryliCon LEED Checklist v4.1

BUILDING DESIGN AND CONSTRUCTION [BD+C] - Continued

EQ Credit: Low Emitting Materials, (1-3 points), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

Description: Compliance promotes holistic consideration of products installed in the building and their potential overall impact on indoor air quality. AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113.

EQ Credit: Construction Indoor Air Quality Management Plan, (1 point), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To promote the well-being of construction workers and building occupants by minimizing indoor air quality problems associated with construction and renovation.

Description: Minimizes exposure to absorbent materials to VOC emissions and contributes to better indoor environmental quality during operations phase. AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113. An AcryliCon floor eliminates the need to repair or remove tile or epoxy in the future as the building ages. Additionally, the chemicals used in the coating process, and high CFM HEPA equipped vacuum systems facilitate a clean/no VOC construction process, keeping the worksite safe and comfortable for building occupants and other trades.

EQ Credit: Indoor Air Quality Assessment, (1-2 points), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To establish better quality indoor air in the building after construction and during occupancy.

Description: AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113.

EQ Credit: Daylight (1 point), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.

Description: AcryliCon light-colored flooring may contribute to achieving this credit.

IN Credit: Innovation (1-2 points), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To encourage projects to achieve exceptional or innovative performance.

Description: It may be possible to apply for innovation credits based on AcryliCon's durability, longevity, or for applications where AcryliCon's benefits exceed the applicable LEED standard.



AcryliCon LEED Checklist v4.1

BUILDING DESIGN AND CONSTRUCTION [BD+C] - Continued

MR Credit: Building Material Human Hazard & Exposure Assessment (1 point), New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, Healthcare

Intent: To reward project teams for selecting products that are assessed using accepted risk assessment methodologies for installation and use of building products.

Description: AcryliCon has completed a screening level hazard assessment through the European testing groups – Eurofins and Building Information Foundation RTS – establishing a M1 Emission Classification of Building Materials and meeting BREEAM-NOR criteria low-level requirements on VOC and carcinogenic substances.

INTERIOR DESIGN AND CONSTRUCTION [ID+C]

MR Prerequisite: Construction and Demolition Waste Management Planning, Commercial Interiors, Retail, Hospitality

Intent: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

Description: An AcryliCon floor can contribute to the construction and demolition waste management plan because it is created from existing materials and eliminates the introduction of new material which will have to be removed and replaced in the future. AcryliCon is a durable floor covering that can withstand many years of heavy use. New flooring will be an option, not a necessity. A new owner can also reapply a new AcryliCon floor over the old creating a new uniform surface without removing the original AcryliCon flooring. AcryliCon allows for the salvaging of components from project renovations and provides the ability to reuse them in the project or for other projects.

MR Credit: Interiors Life-Cycle Impact Reduction (1-4 points), Commercial Interiors, Retail, Hospitality

Intent: To encourage adaptive reuse and optimize the environmental performance of products and materials.

Description: This credit provides points for using existing interior nonstructural elements including floor coverings. AcryliCon is a durable floor covering that can withstand many years of heavy use. New flooring will be an option, not a necessity. A new owner can also reapply a new AcryliCon floor over the old creating a new uniform surface without removing the original AcryliCon flooring. AcryliCon floors typically last the expected life of the building/structure, are easily maintained, and can be easily refurbished if damaged.



AcryliCon LEED Checklist v4.1

INTERIOR DESIGN AND CONSTRUCTION [ID+C] – Continued

MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, (2 points), Commercial Interiors, Retail, Hospitality

Intent: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Description: AcryliCon covers Environmental Product Declaration (EPD) Option 1 under "Life-cycle assessment and environmental product declarations" (both Product-specific Type III EPD and Industry-wide Type III EPD) and Option 2 with conformation under EN15804 and ISO 14025.

MR Credit: Construction and Demolition Waste Management, Commercial Interiors, Retail, Hospitality

Intent: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

Description: An AcryliCon floor can contribute to the construction and demolition waste management credit under Option 2 for waste prevention/design strategies because it is created from existing materials and eliminates the introduction of new material which will have to be removed and replaced in the future. AcryliCon is a durable floor covering that can withstand many years of heavy use. New flooring will be an option, not a necessity. A new owner can also reapply a new AcryliCon floor over the old creating a new uniform surface without removing the original AcryliCon flooring. AcryliCon allows for the salvaging of components from project renovations and provides the ability to reuse them in the project or for other projects.

EQ Credit: Low Emitting Materials, (1-3 points), Commercial Interiors, Retail, Hospitality

Intent: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

Description: Compliance promotes holistic consideration of products installed in the building and their potential overall impact on indoor air quality. AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113.

EQ Credit: Construction Indoor Air Quality Management Plan, (1 point), Commercial Interiors, Retail, Hospitality

Intent: To promote the well-being of construction workers and building occupants by minimizing indoor air quality problems associated with construction and renovation.

Description: Minimizes exposure to absorbent materials to VOC emissions and contributes to better indoor environmental quality during operations phase. AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113. An AcryliCon floor eliminates the need to repair or remove tile or epoxy in the future as the building ages. Additionally, the chemicals used in the coating process, and high CFM HEPA equipped vacuum systems facilitate a clean/no VOC construction process, keeping the worksite safe and comfortable for building occupants and other trades.



AcryliCon LEED Checklist v4.1

INTERIOR DESIGN AND CONSTRUCTION [ID+C] – Continued

EQ Credit: Indoor Air Quality Assessment, (1-2 points), Commercial Interiors, Retail, Hospitality

Intent: To establish better quality indoor air in the building after construction and during occupancy.

Description: AcryliCon meets the VOC content evaluation as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113.

EQ Credit: Daylight (1 point), Commercial Interiors, Retail, Hospitality

Intent: To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.

Description: AcryliCon light-colored flooring may contribute to achieving this credit.

IN Credit: Innovation (1-2 points), Commercial Interiors, Retail, Hospitality

Intent: To encourage projects to achieve exceptional or innovative performance.

Description: It may be possible to apply for innovation credits based on AcryliCon's durability, longevity, or for applications where AcryliCon's benefits exceed the applicable LEED standard.

MR Credit: Building Material Human Hazard & Exposure Assessment (1 point), Commercial Interiors, Retail, Hospitality

Intent: To reward project teams for selecting products that are assessed using accepted risk assessment methodologies for installation and use of building products.

Description: AcryliCon has completed a screening level hazard assessment through the European testing groups – Eurofins and Building Information Foundation RTS – establishing a M1 Emission Classification of Building Materials and meeting BREEAM-NOR criteria low-level requirements on VOC and carcinogenic substances.

OPERATIONS AND MAINTENANCE [O+M]

MR Prerequisite: Facility Maintenance and Renovation Policy, Existing Buildings, Interiors

Intent: To reduce the environmental harms associated with the materials purchased, installed, and disposed of during maintenance and renovation activities.

Description: An AcryliCon floor can contribute to the facility maintenance and renovation policy because it establishes waste diversion goals by eliminating the introduction of new material which will have to be removed and replaced. AcryliCon is a durable floor covering that can withstand many years of heavy use. New flooring will be an option, not a necessity. A new owner can reapply a new AcryliCon floor over the old creating a new uniform surface without removing the original AcryliCon flooring. AcryliCon allows for the salvaging of components from project renovations and provides the ability to reuse them in the project or for other projects.



AcryliCon LEED Checklist v4.1

OPERATIONS AND MAINTENANCE [O+M] - Continued

MR Credit: Purchasing (1-2 points), Existing Buildings, Interiors

Intent: To reduce environmental harm from materials and products purchased, used, installed, and disposed of during the operations and maintenance of buildings.

Description: AcryliCon covers Option 2 (Building Materials) under the EPD requirements conforming to ISO 14025 and EN 15804 and under Option 2 (Other) conforming to the low emissions of volatile organic compounds as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113.

EQ Prerequisite: Green Cleaning Policy, Existing Buildings, Interiors

Intent: To reduce levels of chemical, biological, and particulate contaminants that can compromise air quality, human health, building finishes, building systems, and the environment.

Description: An AcryliCon floor can contribute to the green cleaning policy because the care of an AcryliCon floor uses neutral soap and/or VOC free conditioners such as the *247 Daily Cleaner*. There are no solvents or ammonia used, thus complying with the green cleaning criteria.

EQ Prerequisite: Indoor Environmental Quality Performance, Existing Buildings, Interiors

Intent: To assess how well the building is performing for the occupants, in particular with regards to indoor air quality and comfort.

Description: An AcryliCon floor can contribute to the indoor environmental quality performance by conforming to the low emissions of volatile organic compounds as set forth by South Coast Air Quality Management District (SCAQMD) Rule 1113 in Step 3 of the Performance evaluation.

EQ Credit: Green Cleaning (1-3 points), Existing Buildings, Interiors

Intent: To reduce levels of chemical, biological, and particulate contaminants, which can compromise human health, building finishes and systems, and the environment, by implementing effective cleaning procedures.

Description: AcryliCon flooring covers Option 3 and Option 4 under this credit. For small areas, such as office entries or break rooms, the only cleaning equipment needed is a mop and a squeegee. For larger areas, an auto-scrubber is used to clean the floor. There is no need for gas powered pressure washers, or energy consuming waxing/cleaning equipment.

IN Credit: Innovation (1 point), Existing Buildings, Interiors

Intent: To encourage projects to achieve exceptional or innovative performance. To encourage integration of LEED expertise and collaboration toward project priorities.

Description: It may be possible to apply for innovation credits based on AcryliCon's durability, longevity, or for applications where AcryliCon's benefits exceed the applicable LEED standard.

References:

LEED v4.1 Building, Design and Construction Beta Program Guide, LEED v4.1 Interior Design and Construction Beta Program Guide, LEED v4.1 Operations and Maintenance Beta Program Guide

To whom it may concern

Neustadt-Glewe, 14.05.2020

Declaration of chemical on the Red List

Herewith we confirm, all AcryliCon Systems do not contain any chemicals as advised on the Red List.

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Ppa. Bernd Diel
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