FACT SHEET
Chemical Resistance

AcryliCon screeds and coatings are highly resistant to chemical attack and offer excellent protection against spills and leakage of organic and mineral oils, fats, acids, alkalis and a wide range of industrial cleansers and disinfectants. Our testing involves the immersion of a cured unfilled sample in the test medium at 20°C. The compressive strength of the sample is then tested after 28 days of storage and the rating 'Fully Resistant' stipulates that the strength may not deviate by more than 20% from that of a control sample stored in air at 20°C.

The following ratings should be considered as general guidelines for a number of reasons. Firstly, many proprietary products in practical use (e.g. disinfectants or cleansers) are compounds of a number of chemicals and a simultaneous exposure to two or more of these chemicals may produce a more severe effect on AcryliCon coatings and screeds. Furthermore, the chemical resistance of AcryliCon finished products are influenced both by pigments and fillers used in the recipe, as well as the effect of temperature on concentration of chemicals over time, hence no individual or overall guarantees can be offered by AcryliCon and it is highly recommended that local tests are performed in special cases. Should you have any questions on the chemical resistance of our products, please contact AcryliCon's Technical Services department for further advice.

Acids

Acetic Acid 10%	+	Acetic Acid 30%	o	Acetic Acid Conc.	-	Chromic Acid 10%	+
Chromic Acid 20%	+	Chromic Acid 40%	-	Citric Acid 10%	+	Citric Acid 30%	+
Formic Acid 10%	o	Formic Acid 30%	-	Hydrochloric Acid 10%	+	Hydrochloric Acid Conc.	+
Lactic Acid 10%	+	Lactic Acid 30%	+	Nitric Acid 10%	+	Nitric Acid 30%	o
Nitric Acid Conc.	-	Oxalic Acid 10%	+	Phosphoric Acid 10%	+	Phosphoric Acid 40%	+
Phosphoric Acid Conc.	o	Salic Acid 10%	+	Salic Acid Conc.	+	Sulphuric Acid 30%	+
Sulphuric Acid 50%	o	Sulphuric Acid Conc.	-				

Alkalis

Ammonia 10%	+	Ammonia 30%	o	Caustic Soda 10%	+	Caustic Soda 50%	+
Calcium Hydroxide	+	Potassium Hydroxide	+				

Salt Solutions (saturated)

Ammonium Chloride	+	Ammonium Sulphate	+	Calcium Chloride	+	Potassium Chloride	+
Potassium permanganate	+	Sodium Carbonate	+	Sodium Chloride	+	Sodium Hypochlorite 15%	+
Sodium Sulphate	+						

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www.acrylicon.com

AcryliCon®
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Solvents

Acetone	-	Benzene	-	Butanol	-	Butyl Acetate	-
Butyl Ether	-	Chloroform	-	Cyclohexane	+	Ethanol	-
Ethanol 10%	o	Ethyl Acetate	-	n-Heptane	+	n-Hexane	+
Isopropyl Alcohol	-	Cresol	-	Methyl Ethyl Ketone	-	Perchloroethylene	o
Phenols	o	n-Propyl Acetate	-	n-Propyl Alcohol	-	Styrene	o
Turpentine	o	Toluene	-	Trichloroethylene	-	Xylene	-

Natural Oils & Fats

Animal Fats	+	Blood	+	Castor Oil	+	Linseed Oil	+
Olive Oil	+	Vegetable Fats	+				

Petrochemicals

Crude Oil	+	Diesel Fuel	+	Gasoline (high/normal octane)	o	Hydraulic Oil (e.g. Skydrol)	o
Kerosene	+	Mineral Oil	+	Paraffin Oil	+	Petroleum	+
White Spirit	+						

Cleansers & Disinfectants

Ammonia Solution	+	Calcium Chloride	+	Carbolic Acid	-	Formalin	+
Hydrogen Peroxide 10%	+	Hydrogen Peroxide 30%	+	Hydrogen Peroxide 80%	o	Liquid Ammonia	+
Soap Water	+	Enzyme/no-rinse cleaners	-				

Food & Beverage

Fruit Juice	+	Beer (5% alcohol)	+	Wine (11% alcohol)	+	Cola	+
Milk & Dairy	+	Coffee/Tea	+				

Disclaimer

This information and all further technical advice is based on intensive research and many years of 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 in the sole responsibility of the customer.

Rating:

+ Fully Resistant

o Resistant (Short Term)

- Not resistant

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