Chemical Resistance of Plastifloor® Acrylic Resin Coatings

PF 112 - PF 528

PLASTI CHEMIE GMBH INTERNATIONAL
Produktions- und Vertriebsgesellschaft

Product	resistant	Limited resistance	Non-resistant	Product	resistant	Limited resistance	Non-resistant
Seawater / dest. Water	X			Ethanol			x
Caustic soda 10%, 30% &50%	X			Ethyl acetate			X
Potassium hydroxide 10%, 30% and 50%	X			Isopropanol			X
Ammonia 10% strength	X			n-Hexane	X		
Ammonia 30% strength		X		n-Heptane	X		
Formic acid 10% strength	X			Cresol			X
Formic acid 30% strength			X	Methyl ethyl ketone			X
Citric acid 10% & 30%	X			Phenols		X	
Chromic acid 10% and 20%	X			n-Propanol			x
Chromic acid 40%		X		n-Propyl acetate			X
Acetic acid 10%	X			Perchloroethylene		X	
Acetic acid 30%		X		Styrene		X	
Acetic acid 80%			X	Carbon tetrachloride		X	
Acetic acid conc.			X	Trichloroethylene			X
Lactic acid 10% and 30%	X			Toluene			X
Oxalic acid 10%	X			Turpentine	X		
Phosphoric acid 10% and 40%	X			Xylene			X
Phosphoric acid conc.		X		Linseed oil	X		
Nitric acid 10%	X			Olive oil	X		
Nitric acid 30%		X		Castor oil	X		
Nitric acid conc.			X	Vegetable fats	X		
Hydrochloric acid 10%, 30% and conc.	X			Animal fats	X		
Sulfuric acid 10% and 30%	X			Hydrogen peroxide 10%	X		
Schwefelsäure 50%	X			Hydrogen peroxide 30%	X		
Sulfuric acid conc.			X	Hydrogen peroxide 80%		X	
Ammonium chloride	X			Bleaching powder	X		
Potassium chloride	X			Formalin 40%	X		
Sodium chloride	X			Carbolic acid			X
Calcium chloride	X			Sagrotan® 5%		X	
Ammonium sulfate	X			Pril®	X		
Sodium sulfate	X			Persil®	X		
Sodium	X			P3®	X		
Sodium hypochlorite 15%	X			Rei®	X		
Crude	X			Ammonia	X		
Petroleum		X		White spirit		X	
Mineral oil	X			Tolo®	X		
Kerosene	X			Vegetable juice	X		
Diesel oil	X			Apple juice	X		
Paraffin oil	X			Lemon juice	X		
Mineral spirits	X			Orange juice	X		
Motor gasoline normal		X		Wine	x		
Motor gasoline super			X				
Acetone			X				
Benzene			X				
Butyl acetate			X				
Butanol			X				
Butyl ether			X				
Cyclohexane	X						
Chloroform			X				
Ethanol 30%		x					

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The data listed in the table are for room temperature (about +20 °C) and serve to guide the user. Due to the large number of practical recipes used, for example in the cleaning and disinfecting the area, as well as possible interactions between multiple chemicals used on site a general or individual guarantee cannot be held. The chemical resistance of a coating is also affected by the used fillers and pigments. So in individual cases the user should make his own tests. **Chemicals may also cause discoloration, but without harming the material. It is also important to note that the aggression of acids and other chemicals can increase with increasing temperature and increased mechanical processing of the surfaces (cleaning brush) the chargeability of the coating under certain circumstances. It is also possible that acid changes in the soil by evaporation or moisture absorption and its concentration can then react aggressively.**
The loads occurring in practice often show higher temperature and longer loads and hence may lead to different results.

Evaluation

X	**resistant**	**Due to the preliminary examination a permanent loading occurs on the coating material with this medium**
X	**limited resistance**	**A continous loading is not possible, because a prolonged exposure duration could cause strong softening or swelling. Short-term strain (ca. 1-2 hrs.) is possible.**
X	**non-resistant**	**Even at a short-term loading damages can occur.**

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