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RENOLIT ALKORTEC

Chemical stability

EXCELLENCE
IN ROOFING

Testing method




The best assessment about the long term fitness for purpose of membranes under chemical environments is based on practical experience. The chemical resistance of **RENOLIT ALKORTEC** sheets is tested in accordance with DIN 53393. This testing method is not the only reference for the chemical resistance of the **RENOLIT ALKORTEC** roofing membranes, since it is dependent on a number of factors, e.g. form (solid, liquid, gaseous), temperature, concentration, thickness, reaction time, ... The table describes the chemical resistance concerning common substances.





























The evaluation only reflects the functionality and resistance of the sheets, without considering any surface or colour changes. The statements are valid for the indicated

temperature with a typical test period of 28 days based on a single-sided contact. The standard test temperature is 23°C.

A mixture of chemical agents may show a higher degree of aggression than each of the components separately.

RENOLIT ALKORTEC roofing membranes: Chemical Stability

-  Stable
-  Conditionally stable no chemical destruction. Use value is adversely influenced.
-  Unstable - no use value

I. INORGANIC SUBSTANCES		
a. Acids and bases	Conc. %	RENOLIT ALKORTEC
Hydrochloric Acid	10	
Hydrochloric Acid	30	
Hydrochloric Acid 70°C (158°F)	35	
Phosphoric Acid	10	
Phosphoric Acid	33	
Phosphoric Acid	50	
Sodium Hydroxide	10	
Sodium Hydroxide	50	
Sulfuric Acid	10	
Sulfuric Acid 70°C (158°F)	33	
Sulfuric Acid	50	
Sulfuric Acid	70	
b. Aqueous solutions		
Ammonium Chloride (sat)		
Ammonium Sulphate (sat)		
Calcium Chloride (sat)		
Zinc Chloride (sat)		
II. ORGANIC SUBSTANCES		
Acetic Acid	3	
Acetic Acid	40	
ASTM OIL #1		
ASTM OIL #2		
ASTM OIL #3		
ASTM FUEL B		
Bitumen		
Boiler Fuel		
Brake Fluid		
Carbon Tetrachloride		
Chlorobenzene		
Crude Oil		

II. ORGANIC SUBSTANCES		
	Conc. %	RENOLIT ALKORTEC
Cyclohexane		+
Diesel Fuel		+
Ethyl Acetate	100	-
Ethyl Acetate	10	+ (R)
Ethylene Glycol		+
Ethylene Dichloride		-
Formaldehyde		+
Gasoline		+
Isooctane		+
Kerosene		±
Light Mineral Oil (T-15)		+
Methylene Chloride		-
Methyl Alcohol		+
MEK		-
MEK	10	+
Motor Oil		+
Naphtha		±
Sextone B		-
Sodium Sulphate (sat)		+
1-1-1 Trichlorethane		-
Toluene	100	-
Toluene Dispersion	5	+ (R)
Turpentine		±
Xylene	100	-
Xylene Dispersion	5	+ (R)

III. FOODS AND MISCELLANEOUS		
Linseed Oil		+
Sea Water		+
Sodium Chloride (sat)		+
Sodium Hypochlorite		+
Water 100°C (212°F)		+

(R): only for reinforced membrane

The information contained in the present commercial literature has been given in good faith and with the intention of providing information. It is based on current knowledge at the time of issue, and may be subject to change without notice. Nothing contained herein may induce the application of our products without observing existing patents, certificates, legal regulations, national or local rules, technical approvals or technical specifications or the rules and practices of good workmanship for this profession. The purchaser should verify whether import, advertising, packaging, labelling, composition, possession, ownership and the use of our products or the commercialisation of them are subject to specific territorial rules. He is also the sole person responsible for informing and advising the final end user. When faced with specific cases or application details not dealt with in the present guidelines, it is important to contact our technical services, who will give advice, based on the information at hand and within the limitations of their field of expertise. Our technical services cannot be held responsible for the conception of, nor the execution of the works. In the case of negligence of rules, regulations and duties on the part of the purchaser we will disclaim all responsibility. The colours respect the UV resistance required by EOTA, but are still subject to the natural change over time. Are excluded from the guarantee: aesthetic considerations in case of partial repair of deficient membrane covered by the guarantee. The product availability differs from country to country, please refer to the RENOLIT technical department for further advice.

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