

WATERSTOP-RX CHEMICAL COMPATIBILITY CHART

Table 1

Chemical	Concentration			
	1%	10%	50%	100%
Water	N	N	N	N
Inorganic Acids	M	M	S	S
Inorganic Bases	N	M	S	S
Inorganic Salts	M	S	S	S
Organic Acids				
Alcohols	N	N	M	M
Aldehydes	N	N	N	M
Amines	N	N	M	M
Esters	N	N	M	M
Ethers	N	N	N	M
Aromatic Hydrocarbons				
Benzene	N	N	N	N
Toluene	N	N	N	N
Xylene	N	N	N	M
100/150 solvents	N	M	M	M
Aliphatics (oils and fuels)	N	N	N	N
Halogenated Hydrocarbons				
Methylene Chloride	N	N	N	N
Ketones	N	N	N	N
Chloroform	N	N	N	N
Carbon Disulfides	N	N	N	N
Nitrobenzene	N	N	N	N
Detergents and other Cleaning Products	N	M	S	S
Fats, Greases, Biological Oils, and Sugars	N	N	N	N

Table-1 Legend:

N = NO EFFECT: Performance is not affected under most service conditions.

M = MODERATE EFFECT: Performance can be affected, especially for long-term exposure.

S = SEVERE Effect: Performance will be affected in both short and long term exposure.

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The chemical resistance data in Table 1 is a result of laboratory tests and is intended to serve as a guide. No performance warranty is intended or implied. The degree of chemical attack on any material is governed by the conditions under which it is exposed. Exposure time, temperature and the size of the exposure area usually varies considerably in application; therefore, this table is given and accepted at the user's risk. Confirmation and validity and suitability in specific cases should be obtained. When considering Waterstop-RX for specific applications, a groundwater sample can be submitted and tested prior to installation. It is impossible to test every available chemical; this chart should be used for general screening purposes only and should not be used to replace chemical-specific testing where firm compatibility information is required. The effect of combinations of these chemicals has not been evaluated. Complex chemical solutions should be evaluated on a case-by-case basis.

Important Notes:

1. The information in the chart is based on Waterstop-RX being hydrated with clean water prior to chemical exposure.
2. Specific product usage recommendations will depend on the application, product type, and head pressures present.
3. Waterstop-RX requires water to swell and form a positive seal.
4. Whenever there is uncertainty about the effects of groundwater contaminants on Waterstop-RX, it is recommended that a site water sample be obtained and tested for compatibility.
5. Though Waterstop-RX has good chemical resistance properties, it is designed to function as a water barrier material (waterstop) in concrete joints and is not intended to function as the primary seal for chemical storage vessels.

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