

CHEMICAL RESISTANCE GUIDE

OVERVIEW

The data on this chart is based on short-term (30–60 day) laboratory immersion tests in a controlled environment (72–77°F). It is to be used only as a guide in selecting the proper coating, lining or sealant for a particular chemical environment. Many factors must be considered when choosing the correct product for an application, including:

- Chemical Exposure (Single or Combinations)
- Operating Temperature
- Temperature Fluctuations
- Type of Substrate and its Condition
- Mechanical Abuse
- Degree of Protection Required

KEY TO GUIDE CODES

1. Product is suitable for use in immersion and/or splash and spillage conditions
2. Product is suitable for occasional and inter-mittent contact for periods up to 72 hours in duration
3. Product is suitable for occasional and inter-mittent contact for short time periods with frequent washing

NR Not recommended for this application

S Product may be stained by this chemical

P Postcuring recommended; contact

Holcim Solutions and Products US, LLC., for details

C Non-silica grade recommended for this application

It's always best to test a product in the specific chemical environment prior to use. Test coupons will be furnished upon request.

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SUBSTANCE

Lithium Chloride
Lithium Hydroxide
Lithium Hypochlorite
Magnesium Bisulfite
Magnesium Carbonate
Magnesium Chloride
Magnesium Hydroxide
Magnesium Sulfate
Maleic Acid
Maleic Anhydride, 25% Slurry
Mercuric Chloride
Mercurous Chloride
Mercury
Methanol
Methyl Acrylate
Methyl Alcohol
Methyl Ethyl Ketone
Methyl Methacrylate
Methyl tert-Butyl Ether, 98%
Methylene Chloride
Milk
Mineral Spirits
Molasses
Monochloroacetic Acid
Monoethanolamine
Motor Oil 10W/40
Muriatic Acid
N-Butyl Acrylate
N-Butyl Alcohol
Naphtha
Naphtha VM&P
Naphthalene
Naphthalene Oil
Nickel Plating Solution #1
Nickel Plating Solution #2
Nitric Acid, 10%
Nitric Acid, 20%
Nitric Acid, 30%
Nitric Acid, 60%
Nitrobenzene
Octanoic Acid
Oleic Acid
Oleum
Oxalic Acid
Perchloric Acid, 10%
Perchloroethylene
Phenol, 5%
Phenol 85%
Phenolic Resins
Phosphoric Acid, 50%
Phosphoric Acid, 60%
Phosphoric Acid, 75%
Phosphoric Acid, 85%
Phosphoric Acid, 100%
Phosphorous Acid
Phosphorous Trichloride
Phthalic Acid

NovoRez® Epoxy Novolac Coatings		
351	353	370
		1
		1
		1
		1
1	1	1
1	1	1
		1
2	2	2
1	1	
		1
		1
		1
3	3	2
		1
3	3	1
1	1	
NR	NR	1P
		1
1	1	1
		1
3	3	2
		1
1	1	
		1
1	1	1
2	Naphthalene	1
1	1	
2S	2S	2S
2S	2S	2S
3S	3S	3S
NR	NR	NR
		1
		2
2	2	2
		3S
2	2	2
3	3	2
3	3	1
2	2	1
3	3	2
1S	1S	
2S	2S	2S
3S	3S	2S
NR	NR	3S
NR	NR	NR
NR	NR	NR
		2
		3
2	2	1

THIOKOL® Flexible Sealants, Coatings & Linings					
2235 M / SL	2282	FEC 2233	FEC 2234	FNEC 2515	RLP 2378+
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	3	NR	NR	1
3	3	NR	NR	NR	3
3	3	NR	NR	NR	3
3	3	3	NR	NR	3
1	1	1	1	1	1
NR	NR	NR	NR	NR	NR
1	1	1	1	1	1
NR	NR	3	3	3	NR
1	1	1	1	1	1
NR	NR	2	2	2	NR
3	3	2	2	2	3
1	1	2	2	2	1
1	1	1	1	1	1
1	1	1	1	1	1
3	3	2	2	2	3
1	1	1	1	1	1
NR	NR	2	2	2	NR
NR	NR	2	3	3	NR
NR	NR	3	3	3	NR
NR	NR	NR	NR	NR	NR
1	1	1	1	1	1
1	1	1	1	1	1
3	3	3	3	3	3
3	3	3	3	3	3
NR	NR	3	3	3	NR
NR	NR	NR	NR	NR	NR
1	1	1	1	1	1
1S	1S	1S	2S	2S	1S
2S	2S	3S	3S	3S	2S
3S	3S	NR	3S	3S	3S
NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR
NR	NR	3	3	3	NR

This document is to be used only as a guide in selecting the proper coating, lining or sealant for a particular chemical environment, and is based on data believed to be reliable. Many factors must be considered when choosing the correct product for an application; please refer to cover page for checklist. It is always best to test a product in the specific chemical environment prior to use. Test coupons will be furnished by Holcim Solutions and Products US LLC., upon request.



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SUBSTANCE

Stearic Acid
Styrene
Sugar/Sucrose
Sulfamic Acid
Sulfite Liquor (Pulp)
Sulfur Dioxide (Dry or Wet)
Sulfuric Acid, 10%
Sulfuric Acid, 20%
Sulfuric Acid, 25%
Sulfuric Acid, 50%
Sulfuric Acid, 66%
Sulfuric Acid, 75%
Sulfuric Acid, 98%
Sulfurous Acid, 10%
Sulfur Trioxide
Tall Oil
Tetrachloroethane
Tetrachloroethylene
Tetrahydrofuran
Tetrahydrofurfuryl Alcohol
Tobias Acid
Toluene
Toluene Sulfonic Acid
Trichloroacetic Acid
1,1,1, Trichloroethane
Trichloroethylene
Tricresyl Phosphate
Triethylamine
Trisodium Phosphate
Triton X100
Turpentine
Urea
Urea, 10%
Urea Ammonium Nitrate, 32%
Vinegar
Vinylidene Chloride
Vinyl Acetate
Vinyl Chloride
Water, Deionized
Water, Demineralized
Water, Distilled
Water Tap
White Liquor (Pulp)
Wine
Xylene
Zinc Chloride
Zinc Nitrate, 17%
Zinc Sulfate

NovoRez® Epoxy Novolac Coatings		
351	353	370
1	1	1
3	3	1
		1
		2
		1
		1
		1
2	2	1
2	2	1
2S	2S	1S
2S	2S	1S
2S	2S	1S
2S	2S	2S
		1
		1
		1
NR	NR	
1	1	1
		1
		2
1	1	1
2	2	1P
		1
		2
		1
1	1	
		1
		1
		1
1	1	1
1	1	1
		1
		1
1	1	1
1	1	1
		1
		1
1	1	1
1	1	1
		1

THIOKOL® Flexible Sealants, Coatings & Linings					
2235 M / SL	2282	FEC 2233	FEC 2234	FNEC 2515	RLP 2378+
1	1	1	1	1	1
NR	NR	NR	NR	NR	NR
1	1	1	1	1	1
3	3	1	1	1	3
NR	NR	1	1	1	NR
NR	NR	NR	NR	NR	NR
NR	NR	2	3	3	NR
3	3	3	3	3	3
3	3	2	2	2	3
NR	NR	2	2	2	NR
2	2	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	1
3	3	NR	NR	NR	3
2	2	NR	NR	NR	2
1	1	1	1	1	2
3	3	2	2	2	3
1	1	1	1	1	1
1	1	1	1	1	1