CHEMICAL RESISTANCE CHART

(Elevated Temperature Results 50ºC)

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INTRODUCTION

This information on Metz products has been prepared as a guide only and should not be used for specification purposes by itself.

WHAT WE NEED TO KNOW:

A number of factors must be considered in specifying the correct product for a particular application, including:

- Type, concentration and temperature of all chemicals, including cleaning compounds;
- Whether exposure is continuous or intermittent;
- Mechanical stresses such as traffic, equipment loading, abrasion, etc;
- Type and condition of substrate;
- Surface finish required;
- Site conditions at the time of installation.
- Available curing time before being placed into service.

CLASS CATEGORIES:

1. Epoxy Novolac - includes Metz 6NF, 33EN Series (excl 33EN Sprayable)
2. Polyurethane A - includes Metz 93PU and 94 series
3. Polyurethane B - includes Metz 20B, 20M, 95M
4. Furane - includes Metz 12P, 12PHF
5. Vinyl Ester - includes Metz 10VE, 15VE, 16VE series
6. Potassium Silicate - includes Metz 7K
7. Membrane - includes Metz 96
8. Silicone - includes Metz 8
9. Ceramics - includes Metz Acid Tile, Metz XL, Fireclay, DP2 and PP2 Acid Bricks
10. Fluoroelastomer - includes Metz Viton Caulk, Metz Viton Coating

CHEMICAL LISTING

Not specifically mentioned, or any combination of chemicals please consult Metz for recommendations.

CHEMICAL RESISTANCE IS DESCRIBED AS:

R recommended for full exposure
S satisfactory for splash and spillage exposure with adequate slopes to drain
NR not recommended
ND no data

The data in this chart is based on experience and tests on cured samples **conducted at 50ºC**. Combinations of chemicals and also higher temperatures can produce different results. For other specific conditions consult Metz. This information is offered as a guide only to assist the user, who should satisfy themselves that selected products are suitable for their application.

We would welcome your enquiry for advice on any application.

CHEMICAL	EPOXY NOVOLAC	POLYURETHANE A		POLYURETHANE B	FURANE	VINYL ESTER	POTASSIUM SILICATE	MEMBRANE	SILICONE	CERAMIC
(tested at 50°C)	6NF, 33EN Series*	93PU series	94 series	20B, 20M, 95M	12P, 12PHF	10VE, 15VE, 16VE series	7K	96	8	ACID TILES & BRICKS
ACIDS										
NITRIC ACID, 10%	R	R	R	R	R	R	R	R	R	R
NITRIC ACID, 20%	NR	R	R	R	NR	R	R	R	NR	R
NITRIC ACID, 30%	NR	R	NR	NR	NR	R	R	R	NR	R
NITRIC ACID, 40%	NR	NR	NR	NR	NR	R	R	NR	NR	R
NITRIC ACID, 50%	NR	NR	NR	NR	NR	R	R	NR	NR	R
NITRIC ACID, 60%	NR	NR	NR	NR	NR	NR	R	NR	NR	R
NITRIC ACID, 70%	NR	NR	NR	NR	NR	NR	R	NR	NR	R
HYDROCHLORIC ACID 10%	R	R	R	R	R	R	R	R	R	R
HYDROCHLORIC ACID 20%	R	R	R	R	R	R	R	R	R	R
HYDROCHLORIC ACID 36%	R	R	R	NR	R	R	R	NR	R	R
SULFURIC ACID 40%	R	R	R	R	R	R	R	R	R	R
SULFURIC ACID 50%	R	R	R	R	R	R	R	R	NR	R
SULFURIC ACID 60%	R	NR	R	R	R	R	R	R	NR	R
SULFURIC ACID 70%	R	NR	NR	NR	R	R	R	R	NR	R
SULFURIC ACID 80%	NR	NR	NR	NR	NR	NR	R	NR	NR	R
SULFURIC ACID 98%	NR	NR	NR	NR	NR	NR	R	NR	NR	R
PHOSPHORIC ACID 10%	R	R	R	R	R	R	R	R	R	R
PHOSPHORIC ACID 20%	NR	R	R	R	R	R	R	R	R	R
PHOSPHORIC ACID 30%	NR	R	R	R	R	R	R	R	R	R
PHOSPHORIC ACID 40%	NR	R	R	R	R	R	R	R	R	R
PHOSPHORIC ACID 50%	NR	R	R	R	R	R	R	R	R	R
PHOSPHORIC ACID 85%	NR	R	R	R	R	R	R	R	NR	R
ALKALIES (Except NaOH)	R	R	R	R	R	R	NR	R	R	R
SODIUM HYDROXIDE, ALL	R	R	R	R	R	R	NR	R	R	NR

R = RECOMMENDED S = SPLASH SPILLAGE NR = NOT RECOMMENDED ND = NO DATA

* excludes 33EN Sprayable