

CrystalSeal Resistance

LIBRARY REF NO	HMG124
SUBJECT	CRYSTALSEAL CHEMICAL RESISTANCE

Issued: 18/08/2005

Chemical Resistance

The following information is based on laboratory tests and to best of our knowledge is accurate. However, it is recommended that customers satisfy themselves as to the performance under specific service conditions.

	% Conc	Appearance after washing with water and drying	
Industrial Chemicals			
Acetic Acid	10.0	Moderate softening	Recovers
Acetic Acid	50.0	Severe softening, severe blistering	No Recovery
Ammonium	10.0	Slight softening and pimpling	Recovers
Hydroxide	28.0	Slight softening	Recovers
Calcium Chloride	50.0	No effect	
Calcium Hydroxide	20.0	Slight softening	Recovers
Citric Acid	70.0	No effect	
Ferrous Sulphate	10.0	Slight swelling	Recovers
Hydrochloric Acid	18.5	Slight softening	Recovers
Hydrochloric Acid	37.0	Moderate softening	No Recovery
Lactic Acid	10.0	Slight softening	Recovers
Lactic Acid	100	Severe softening, severe blistering	No Recovery

Nitric Acid	10.0	Slight softening	Recovers
Nitric Acid	50.0	Slight softening	Recovers
Peracetic Acid	3.0	Slight softening	Recovers
Phosphoric Acid	2.0	Slight softening	Recovers
Sulphuric Acid	33.0	No effect	
Sulphuric Acid	50.0	Moderate softening	Recovers
Sodium Chloride	10.0	Slight softening	Recovers
Antifreeze*	50.0	No effect	
Brake Fluid*		Severe softening	No Recovery
Formaldehyde	40.0	Slight softening	Recovers
Petrol		No effect	
Glycerine		No effect	
Motor Oil*		No effect	
Transmission Fluid*		Slight softening	Recovers
Windscreen Washer		No effect	
Cleaning Materials			
Bleach Solution*		Slight softening	Recovers
Detergent Solution*	0.25	Slight softening	Recovers
Domestic Chemicals			
Coca Cola*		No effect	
Ink*		No effect	
Tea*		No effect	
Mustard*		Slight discoloration	
Nail Polish Remover*		Considerable softening	Recovers

Shoe Polish *		Moderate discoloration	
Urine*		No effect	
Worcester Sauce*		Slight discoloration	
Solvents			
Acetone		Considerable softening	Recovers
Ethanol	50.0	Moderate softening	Recovers
Ether		No effect	
Isopropanol		Severe softening, severe blistering	No Recovery
Perchloroethylene		Slight softening	
Methylene Chloride		Softening	
White Spirit		No effect	
Xylene		Slight softening	Recovers

Physical Resistance

Physical Resistance		As supplied	Catalysed with 1% accelerator
Tack free	hours	1.5	0.75
Hard	hours	2.0	1.0
Hard	1 hour	Tacky	8
Hard	2 hours	10	12
Sward	4 hours	16	26
Hardness	1 day	44	52
Hardness	3 days	50	52
Hardness	1 week	54	54

Typical film properties after one month at 20°C/60% RH

Elasticity

Abrasion resistance (Taber/Wheel CS17/1000g load/1000 cycles), weight loss 21mg.

Results of florida exposure testing

2 coats onto aluminium panel and exposed for 6 months

General Appearance	No change
Cracking	No change
Colour	No change
Gloss	No change
Dirt	No change

— Mark Hutton @ 7:17 am, May 19, 2006