

TECNOCOAT
PURE POLYUREA



MEMBRANA LÍQUIDA, PROTECTORA E IMPERMEABLE
LIQUID MEMBRANE, WATERPROOF AND PROTECTIVE

TECHNICAL REPORT

chemical resistance values

tecnocoat P-2049

TECNOPOL

POLYUREA COATING SYSTEMS - POLYUREA COATING COMPANY
TECNOPOL • Pol. Ind. Z • c/premsa, 5 • CP: 08150 • Parets del Vallès (Barcelona)
t93 568 21 11 • f93 568 02 11 • e-mail: info@tecnopol.es

Water

PRODUCT	FORMULE	RESULT
Brine	xxxxxx	Resists
Clored water	xxxxxx	Loss of color
Deionized water	H ₂ O	Loss of color
Distilled water	H ₂ O	Loss of color
Raw Water	H ₂ O	Resists
Sea Water	xxxxxx	Resists
Softened Water	H ₂ O	Resists

Destiled Water

PRODUCT	FORMULE	RESULT
Hydrogen sulfide gas	H ₂ S	Loss of color
Methane gas	CH ₄	Loss of color
MIC (Bacterial)	xxxxxx	Loss of color
Sewage	xxxxxx	Loss of color
Sources treated	xxxxxx	Loss of color

Acids

PRODUCT	FORMULE	RESULT
Acetic Acid <5%	C ₂ H ₄ O ₂	Loss of color
Acrylic	C ₃ H ₄ O ₂	No Resists
Butyric <10%	C ₄ H ₈ O ₂	No Resists
Chromic <2%	CrO ₃	No Resists
Cítric	C ₆ H ₈ O ₇	Loss of color
Cresylic	C ₂₁ H ₂₄ O ₃	No Resists
Formic <50%	CH ₂ O ₂	No Resists
Fluorosilicic	H ₂ SiF ₆	No Resists
Hydrochloric <17%	HCl	Loss of color
Hydrofluoric	HF	No Resists
Lactic	C ₃ H ₆ O ₃	Loss of color
Display case	C ₄ H ₆ O ₂	No Resists
Nitric <5%	HNO ₃	No Resists
Oleic	C ₁₈ H ₃₄ O ₂	No Resists
Phosphoric <70%	H ₃ PO ₄	Loss of color
Stearic	C ₁₈ H ₃₆ O ₂	No Resists
Sulfamic	H ₃ NO ₃ S	No Resists
Sulphuric Acid <30%	H ₂ SO ₄	Loss of color
Sulphuric Acid <98%	H ₂ SO ₄	No Resists

Alcalis

PRODUCT	FORMULE	RESULT
Ammonium Hydroxide <20%	NH ₄ OH	Loss of color
Ammonium hydroxide > 20%	NH ₄ OH	No Resists
Aqueous Ammonia	H ₃ N	Loss of color
Calcium Hydroxide <30%	CaH ₂ O ₂	Loss of color
Calcium hypochlorite <15%	CaCl ₂ O ₂	Loss of color
Carbon disulfide or	CS ₂	Loss of color
Detergents	xxxxxx	Loss of color
Potassium hydroxide <20%	KOH	Loss of color
Soaps	xxxxxx	Loss of color
Sodium Bicarbonate	NaHCO ₃	Resists
Sodium Carbonate	Na ₂ CO ₃	Loss of color
Sodium chlorite	NaClO ₂	No Resists
Róximo Hid sodium <20%	NaOH	Loss of color
Sodium hydroxide <50%	NaOH	No Resists
Nitric Sodium	NaNO ₂	No Resists
Sodium Sulfate	Na ₂ O ₄ S	Loss of color
Trisodium phosphate	Na ₃ O ₄ P	Loss of color

Salts

PRODUCT	FORMULE	RESULT
Calcium Bromide	CaBr ₂	Loss of color
Calcium chloride	CaCl ₂	Loss of color
Cuprous Chloride	CuCl	Loss of color
Ferric Chloride	FeCl ₃	Loss of color
Iron Sulfate	Fe ₂ O ₁₂ S ₃	Loss of color
Ferrous Chloride	Cl ₂ Fe	Loss of color
Lithium bromide	BrLi	Loss of color
Magnesium chloride	Cl ₂ Mg	Loss of color
Magnesium sulphate	MgO ₄ S	Loss of color
Potassium iodide	KI	No Resists
Potassium monopersulfate	K ⁺ O-S(=O) ₂ (-OOH)	No Resists
Sodium chloride	NaCl	Resists
Sodium nitrate	NaNO ₂	Loss of color
Zinc Bromide	ZnBr ₂	Loss of color

Detergents

PRODUCT	FORMULE	RESULT
Chlorine Dioxide	ClO ₂	Resists
Chlorine	ClNaO	Loss of color
Hydrogen peroxide <35%	H ₂ O ₂	Loss of color
Phosphorus	P	Loss of color
Sodium hypochlorite <18%	NaOCl	Loss of color
Sodium Silicate	Na ₄ O ₄ Si	Loss of color

Alcohols

PRODUCT	FORMULE	RESULT
2-Propanol	C ₃ H ₈ O	Loss of color
Ethanol	C ₂ H ₆ O	Loss of color
FA	C ₅ H ₆ O ₂	No Resists
Isopropyl	C ₃ H ₇	Loss of color
Methanol	CH ₃ OH	Loss of color

Aliphatics

PRODUCT	FORMULE	RESULT
Oil	xxxxxx	Loss of color
Diesel	xxxxxx	Loss of color
Fuel Oil #2	xxxxxx	Loss of color
Fuel Oil #4	xxxxxx	Loss of color
Fuel Oil #6	xxxxxx	Loss of color
Gasoline	xxxxxx	Loss of color
Heptane	C ₇ H ₁₆	Loss of color
Exane	C ₆ H ₁₄	Loss of color
Hydraulic Oils	xxxxxx	Loss of color
JP-4	xxxxxx	No Resists
JP-5	xxxxxx	Loss of color
Kerosene	xxxxxx	Loss of color
Mineral Spirits	xxxxxx	Loss of color
Motor Oils	xxxxxx	Loss of color
Naphtha	xxxxxx	No Resists
Natural Gas	xxxxxx	Loss of color
Octane	C ₈ H ₁₈	Loss of color
Pentane	C ₅ H ₁₂	Loss of color
Transformer Oils	xxxxxx	Loss of color

Aromatics

PRODUCT	FORMULE	RESULT
Benzene	C_6H_6	No Resists
Chlorobenzene	C_6H_5Cl	No Resists
Condensed	xxxxxx	No Resists
Ethylbenzene	C_8H_{10}	No Resists
ETBE	$C_6H_{14}O$	No Resists
MTBE	$C_5H_{12}O$	No Resists
Nitrobenzene	$C_6H_5NO_2$	No Resists
PAH's	$C_9H_{10}N_2O_3$	No Resists
Phenol	C_6H_5OH	No Resists
Styrene	C_8H_8	No Resists
Toluene	C_7H_8	No Resists
Xylene	$C_{10}H_{12}$	No Resists

Ketones

PRODUCT	FORMULE	RESULT
Acetone	C_3H_6O	No Resists
Methyl Amyl Ketone	$C_7H_{14}O$	No Resists
Methyl isobutyl ketone	$C_6H_{12}O$	No Resists

Chlorinated Solvents

PRODUCT	FORMULE	RESULT
Trichloroethylene 1'1'	C_2HCl_3	No Resists
Carbon tetrachloride	CCl_4	No Resists
Isobutyl chloride Metilio	$C_5H_{11}Cl$	No Resists
Methylene Chloride	CH_2Cl_2	No Resists
Vinyl Tricoloro	$ClCH_2CHCl_2$	No Resists

Other Solutions

PRODUCT	FORMULE	RESULT
Acetaldehyde	CH ₃ CHO	No Resists
Acrinolito	C ₃ H ₃ N	No Resists
Aluminum	AlH ₂₄ KO ₂₀ S ₂	Loss of color
Aniline	C ₆ H ₅ NH ₂	No Resists
Animal fat	xxxxxx	Resists
Atrazine	C ₈ H ₁₄ ClN ₅	No Resists
Coal (low sulfur)	C	Resists
Coal (high sulfur)	C	Resists
Cyclohexylamine	C ₆ H ₁₁ NH ₂	No Resists
Dextrose	C ₆ H ₁₂ O ₆	Resists
Dibutyl maleate	C ₂₄ H ₃₈ O ₄	Loss of color
Dibutyl phthalate	C ₁₂ H ₂₀ O ₄	No Resists
Dibutyl phthalate	C ₁₆ H ₂₂ O ₄	No Resists
Diethylene glycol butyl ether	C ₈ H ₁₈ O ₃	Loss of color
Dimethylformamide	C ₃ H ₇ NO	No Resists
Butyl ether, ethylene glycol	C ₆ H ₁₄ O ₂	Loss of color
Formaldehyde	CH ₂ O	No Resists
Fructose	C ₆ H ₁₂ O ₆	Resists
Hydroquinone	C ₆ H ₄ (OH) ₂	No Resists
Kaolin (China clay)	xxxxxx	Resists
Methyl acrylate	C ₄ H ₆ O ₂	No Resists
Methacrylonitrile	C ₄ H ₅ N	No Resists
Methyl methacrylate	C ₅ H ₈ O ₂	No Resists
Mono-ethanolamine	C ₂ H ₇ NO	No Resists
Ozone <2 ppm	O ₃	No Resists
Polypropylene (dry)	C ₃ H ₆	Resists
Polystyrene (dry)	C ₈ H ₈	Resists
Polytetrafluoroethano (dry)	(C ₂ F ₄) _n	Resists
Polyvinyl chloride (dry)	C ₂ H ₃ Cl	Resists
Potash	CK ₂ O ₃	Resists
Pulp liquor	xxxxxx	Loss of color
Quaternary amines	xxxxxx	No Resists
Silage	xxxxxx	Resists
Silicone Fluids	xxxxxx	Resists
Sugar (Saturated)	xxxxxx	Resists
Sugar Syrup	C ₁₂ H ₂₂ O ₁₁	Resists
Toluidine	xxxxxx	No Resists
Triethyl Phosphate	C ₆ H ₁₅ O ₄ P	No Resists
Triethanolamine	C ₆ H ₁₅ NO ₃	No Resists
Urea	CH ₄ N ₂ O	Loss of color

Note: The information in these values is based on our own current knowledge and existing laws of EU and national. The product no be used for purposes other than those specified. It is always your responsibility to take necessary measures to comply with the requirements of existing laws. The information contained in these pages should not be considered as a guarantee of its properties.

TECNOPOL

	jetfuel A1	Biodiesel	Skydroll	5% HCL	10% HNO3	20% HNO3	10% NaOH	20% NaOH	10% H2SO4	20% H2SO4	Hypochloride
1 week											
swelling											
softening											
color change											
2 week											
swelling											
softening											
color change											
3 week											
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color change											
4 week											
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9 week											
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48 week											
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softening											
color change											
52 week											
swelling											
softening											
color change											

no change minor change medium change severe change

