



FERRO

TECHNICAL INFORMATION SHEET

CHEMICAL RESISTANCE CHART

VEDOC – Powder Coating

a division of FERRO SOUTH AFRICA (PTY) LTD

Reg No. 2004/000614/07

PO Box 108, Brakpan, 1540, South Africa.

10 Atomic Street, Vulcania, Brakpan, 1554.

Telephone: +27 11 746 4000

Fax: +27 11 746 4062

E-mail: coatings@ferrosa.co.za



a BUD Group Company

Key					
E	-	no attack	G	-	appreciably no attack
F	-	some attack, but useable in some instances	P	-	attacked, not recommended for use
N	-	rapidly attacked	*	-	include nitrate and sulphate
Cold	-	20°C	Hot	-	80°C or boiling point of solvent

Family of Products	Epoxy VE & VPC		Hybrid VEP		Polyester VX/VP/VPS/VS	
	Cold	Hot	Cold	Hot	Cold	Hot
Chemical						
Acids						
Acetic, 10%	F	N	F	P	F	P
Acetic, Glacial	N	N	P	P	P	P
Benzene Sulphonic, 10%	E	E	F	P	F	P
Benzoic	E	E	E	E	E	E
Boric	E	E	E	E	E	E
Butyric, 100%	P	N	F	P	F	P
Chloracetic, 10%	E	E	E	E	E	E
Chromic, 5%	F	N	P	P	P	P
Citric, 10%	E	N	E	E	E	E
Fatty Acids	E	E	E	E	E	E
Fluosilicic	N	N	P	P	P	P
Formic, 90%	E	F	P	P	P	P
Hydrobromic, 20%	G	G	G	F	G	F
Hydrochloric, 20%	E	G	G	F	G	F
Hydrocyanic	E	E	E	E	E	E
Hydrofluoric, 20%	G	G	P	P	P	P
Hypochlorous, 5%	F	N	G	F	G	F
Lactic, 5%	F	N	F	P	F	P
Maleic, 25%	E	E	E	E	E	E
Nitric, 5%	E	G	F	F	F	F
Nitric, 30%	G	P	P	P	P	P
Oleic	E	E	E	E	E	E
Oxalic	E	E	E	E	E	E
Phosphoric	G	F	G	F	G	F
Picric	G	F	G	F	G	F
Stearic	E	E	E	E	E	E
Sulphuric, 50%	G	F	F	P	F	P
Sulphuric, 80%	F	N	P	N	P	N
Tannic	E	E	E	E	E	G



Family of Products	Epoxy VE & VPC		Hybrid VEP		Polyester VX/VP/VPS/VS	
	Cold	Hot	Cold	Hot	Cold	Hot
Alkalis						
Ammonium Hydroxide	E	G	P	P	P	P
Calcium Hydroxide	E	E	P	P	P	P
Potassium Hydroxide	E	E	P	P	P	P
Sodium Hydroxide	E	E	P	P	P	P
Acid Salts						
Aluminium Sulphate	E	E	E	E	E	E
Ammonium Chloride*	E	E	E	E	E	E
Copper Chloride*	E	E	E	E	E	E
Iron Chloride*	E	E	E	E	E	E
Nickel Chloride*	E	E	E	E	E	E
Zinc Chloride*	E	E	E	E	E	E
Alkaline Salts						
Barium Sulphide	E	E	E	E	E	E
Sodium Bicarbonate	E	E	E	E	E	E
Sodium Carbonate	E	E	E	F	E	F
Sodium Sulphide	E	E	E	F	E	F
Trisodium Phosphate	E	E	G	F	G	F
Neutral Salts						
Calcium Chloride*	E	E	E	E	E	E
Magnesium Chloride*	E	E	E	E	E	E
Potassium Chloride*	E	E	E	E	E	E
Sodium Chloride*	E	E	E	E	E	E
Solvents						
Alcohols	E	E	E	E	E	E
Aliphatic Hydrocarbons	E	E	G	G	G	G
Aromatic Hydrocarbons	E	E	G	F	G	F
Chlorinated Hydrocarbons	F	F	P	N	P	N
Ketones	F	F	F	P	F	P
Ethers	F	F	F	P	F	P
Esters	F	F	F	P	F	P
Petrol	E	E	E	E	E	E
Carbon Tetrachloride	E	E	G	G	G	G
Organic Solvents						
Aniline	G	P	P	P	P	P
Benzene	E	E	F	P	F	P
Formaldehyde, 37%	E	G	G	G	G	G
Phenol, 5%	G	F	G	F	G	F
Mineral Oils	E	E	E	E	E	E
Vegetable Oils	E	E	E	E	E	E
Chlorobenzene	G	P	G	F	G	F

