Application Guidelines

Specification	CE EN345-S1
Temperature maximum	90 degrees Celsius
Anti Static	Product is anti static. If application is life critical additional consultation with product expert is required. Electrical resistance can be changed significantly by flexing, contamination or moisture. Introduction of inner sole reduces resistance
Oil	Oil resistant
Slip Resistance	Tested to SATRA PM144 1992 and meets these requirements. Care should be taken on wet or oily surfaces
Toe Cap	200 Joules
Lifespan	The application determines length of service that should be achieved. Normal environments should provide 12 months service if appropriate care taken. Refer Care guidelines
Water	Water resistant - Leather and PU combination

Type of industry	Suitability	Comments
General Industry	Highly suitable	
Construction Industry	Widely used	
Mining Industry	Widely used	Care in very wet areas required. Gumboots would be more suitable for wet area applications
Petrochemical Industry	Widely used	Highly oil resistant but reference to chemical chart below is recommended
Engineering	Highly suitable	
Power Generation	Widely used	
Agriculture	Highly suitable	
Food industry	Widely used	Reference to Chemical resistance in cleaning areas may be necessary
Fabrication	Highly suitable	
Metal Industries	Widely used	Temperature limitations must be observed
Motor Industry	Highly suitable	
Fishing & Allied Industries	widely used	
Glass manufacturing and fabrication	Widely used	Steel midsole advised to protect against glass penetration of the sole
Municipality	Highly suitable	
Waste Disposal	Widely used	Steel midsole advised to protect against penetration of the sole
Moving and Rigging	Highly suitable	
Forestry	Widely used	
Telecommunications	Widely used	In the appropriate job requirement
Contract Labour	Highly suitable	
Transport - Air, Road & Rail	Widely used	
Shipping	Widely used	
Civil contracting	Widely used	

It is important that the footwear selected must be suitable for the protection required by the wearer and the environment. If any uncertainty exists consultation between buyer and seller should be conducted to ensure that the correct footwear is selected. This application guide only offers very general advice and should be confirmed if there may be any concerns over potential protection from hazards of any form.

Chemical Resistance Chart

Chemical	Expanded Poly-urethane				Chemical	Expanded Poly-urethane			
	Excellent	Good	Fair	Poor		Excellent	Good	Fair	Poor
Acetic Acid	▲				Glycol	▲			
Acetone				▲	Hydrochloric Acid 3 n	▲			
Aluminium Chloride 10% Sol.	▲				Hydrogen Peroxide 3%	▲			
Ammonia	▲				Iso-Octane = Fuel 1	▲			
Ammonium Chloride 10% Sol.	▲				Iso-Octane 70%:30% Toluene=Fuel 2		▲		
Aniline				▲	Iso-Octane 50%:50% Toluene= Fuel 3			▲	
ASTM-Fuel A	▲				Iso-Propanol		▲		
ASTM-Fuel B		▲			Kerosine	▲			
ASTM-Fuel C			▲		Lactic Acid			▲	
ASTM-Oil 1	▲				Lubricating Grease	▲			
ASTM-Oil 2	▲				Magnesium Chloride 10% & 30% Sol.	▲			
ASTM-Oil 3	▲				Methane		▲		
Benzene				▲	Methanol		▲		
Benzyl Alcohol				▲	Methyl Acetate				▲
Bleach	▲				Methyl Ethyl Ketone				▲
Brake Fluid ATE	▲				Methyl Glycol				▲
Brake Fluid ATS	▲				Methyl Glycol Acetate				▲
Butane		▲			Methylene Chloride				▲
Butyl Acetate				▲	Mineral Oil	▲			
Butyl Alcohol			▲		Ozone	▲			
Calcium Chloride 10% & 40% Sol.	▲				Paraffin Oil	▲			
Carbon Disulphide			▲		Perchloreothylene				▲
Carbon Tetrachloride			▲		Petroleum	▲			
Caustic Soda Sol. 10%	▲				Petroleum Ether	▲			
Chlorobenzene				▲	Phosphoric Acid			▲	
Chloroform				▲	Potassium Dichromate 10% Sol.	▲			
Chromic Acid				▲	Potassium Hydroxide	▲			
Cyclohexane	▲				Potassium Nitrate		▲		
Cyclohexanon				▲	Potassium Permanganate 5% Sol.				▲
Decalin			▲		Propane		▲		
Diesel Oil	▲				Pyridine				▲
Dimethyl Acetamide				▲	Sea Water	▲			
Dimethyl Formamide				▲	Sodium Bisulphate 10% Sol.		▲		
Distilled Water	▲				Sodium Chloride 10% Sol	▲			
Ethanol			▲		Sodium Hypochlorite Sol.	▲			
Ether			▲		Sodium Sulphite		▲		
Ethyl Acetate				▲	Sulphuric Acid	▲			
Ethylene Chloride		▲			Turpentine		▲		
Ferric Chloride 10% Sol.		▲			Tetrachloroethylene				▲
Formic Acid			▲		Tetrahydrofuran				▲
Freon 12			▲		Toluene				▲
Freon 22			▲		Trichloroethylene				▲
Gear Box Oil SAE 90	▲				Xylene				▲
Glycerine	▲								