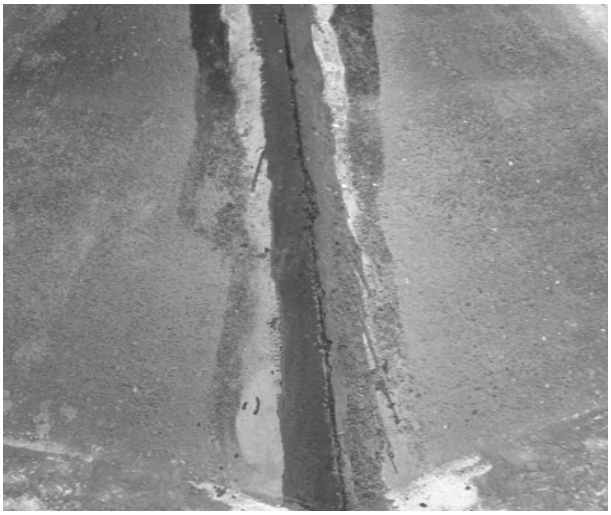
Item Code: 95074K
Feb 2013 v2

ProLong

Provides maintenance free PRODUCTION - LONGER

E PRIMER

TECHNICAL REFERENCE INFORMATION



E PRIMER is a fast setting, high strength adhesive for use with SR polyurethane products as an aid to adhesion.

E PRIMER is a blend of epoxide polymers developed through extensive evaluation, demonstrating extremely high adhesive properties with good flexability, effective in promoting a strong bond between SR products and most substrates. Specially developed for porous substrates.

TYPICALLY USED ON:

Concrete	Wood
Steel	Fibreglass
Foam	Plastic

GENERAL PRODUCT INFORMATION

USERS DATA

Ratio by weight	10:1
Ratio by volume	10:1
Pot Life 500g minutes @ 24°C	20
Mixed colour	Red
Mixed consistency @ 24°C	Thick Liquid
Specific gravity when mixed	1.1
Coverage, kg/m² @ 100 micron	0.1

ADHESION

1 = Excellent peel adhesion 2 = Good peel adhesion
3 = Good overall adhesion 4 = Poor adhesion

Bronze	1	Concrete	2
Copper	1	Epoxy	1
Fibreglass	1	HDPE	2
Natural rubber	2	Polypropylene	3
Polyurethane	2	PTFE	4
Steel	1	Rubber	3
Timber	2	UHDPE	3

TYPICAL CURED PROPERTIES

Maximum operating temperature, °C	70
Heat deflection temperature ASTM D648, °C	70
Cure to handling, Minutes	90

CHEMICAL RESISTANCE

Tested at 21°C. Samples cured for 10 days at 25°C. Curing at elevated temperatures (ie: > 45°C) will improve chemical resistance.

1 = Continuous or long term immersion
2 = Short term immersion
3 = Splash and spills
4 = Avoid contact

Acetic Acid, 10 %	2	Acetone	3
Acetic Acid, Glacial	2	Ammonium Chloride	1
Hydrochloric Acid, 5 %	2	Beer	1
Hydrochloric Acid, 10 %	2	Dichloromethane	4
Hydrochloric Acid, conc	3	Diesel Fuel	2
Nitric Acid, 5 %	2	Isopropyl Alcohol	2
Nitric Acid, 10 %	3	Kerosene	2
Phosphoric Acid, 5 %	2	Petrol	2
Phosphoric Acid, 20 %	3	Salt Water	1
Sulfuric Acid, 5 %	2	Sewage	1
Sulfuric Acid, 20 %	3	Skydrol	2
Ammonium Hydroxide, 5 %	1	Sodium Cyanide	1
Ammonium Hydroxide, 20 %	1	Sodium Hypochlorite	2
Potassium Hydroxide, 5 %	1	Toluene	3
Potassium Hydroxide, 20 %	1	Trichloroethane	3
Sodium Hydroxide, 5 %	1	Wine	2
Sodium Hydroxide, 20 %	1	Xylene	2

This information is supplied as an indicative reference only. Caution should be used where direct comparisons are to be made.

SURFACE PREPARATION

It is essential that all surfaces to be treated are properly prepared to obtain a strong bond between the substrate and the product.

- All oil, dirt and other loose contamination must be removed by washing, degreasing or blasting.
- Surfaces should preferably be abrasive blasted although roughening using mechanical alternatives such as wire brush or abrasive disc can be used to leave a clean surface, free of scale, rust and other foreign substances.

For maximum adhesion to metallic surfaces, grit blast to expose a sound substrate with a nominal surface profile of 50 micron. Application should take place immediately after preparation to avoid oxidation of the freshly prepared surface.

Surfaces that have been exposed to extreme environments such as continuous operation in sea water or petroleum products may necessitate alternate preparation procedures. Consult National or International standards where possible.

APPLICATION

Apply E Primer to all surfaces that are to be treated with Synthetic Rubber products. For plastic, rubber & metal, apply 1 even coat to all properly prepared bonding surfaces and allow to dry. If the first coat has not provided adequate coverage and is uneven, leave it to dry for 30 minutes before applying a second coat. For porous materials such as timber and concrete, 2 coats should be applied to those bonding surfaces, or sand added to provide an even aplication. E Primer should be allowed to dry for 60 minutes before immediate application of the appropriate Synthetic Rubber product. Optimum primer thickness is 50 - 100 micron.

CLEAN UP

Clean tools and equipment immediately after use with Cleanup or a heavy duty industrial hand cleaner or detergent.

CURE

Variations in cure may arise due to the amount of material being applied, the thickness of material being applied, the surface temperature, and the product temperature. The cure may be increased by applying external heat to the prepared surface before application of the product. This can be done with heat lamps or other heat sources. The cure may be decreased by cooling the product before mixing.

SHELF LIFE

Store away from heat and direct sunlight. A minimum of 2 years should be expected if held in original unopened containers.

WARRANTY

Since the storage, handling and use of this product is beyond our control, this product is supplied without guarantee. Furthermore, nothing should be construed as a recommendation to use this product in conflict with existing patents.

Material Safety Data (PART A)

U.N. Number	None Allocated
Dangerous Goods Class and Subsidiary Risk:	None Allocated
Hazchem Code:	None Allocated
Poisons Schedule:	5

Physical Description / Properties

Colour:	Red
Odour:	Slight
Percent Volatiles:	0%
Specific Gravity:	1.1
Solubility in Water:	Non Soluble
Flash Point (°C):	Non Flammable
Flammability Limits:	Not Applicable

Ingredient Chemical entity	Proportion
Epoxy Resin	High

(High>60%) (Medium 10% - 60%) (Low<10%)

Material Safety Data (PART B)

U.N. Number	None Allocated
Dangerous Goods Class and Subsidiary Risk:	None Allocated
Hazchem Code:	None Allocated
Poisons Schedule:	5

Physical Description / Properties

Colour:	Clear
Odour:	Slight Amine
Percent Volatiles:	0%
Specific Gravity:	1.1
Solubility in Water:	Non Soluble
Flash Point (°C):	Non Flammable
Flammability Limits:	Not Applicable

Ingredient Chemical entity	Proportion
Polyamide/Aliphatic Amine Prepolymer	High

(High>60%) (Medium 10% - 60%) (Low<10%)

HEALTH HAZARD INFORMATION

Health Effects

Swallowed:	Possible irritant. Can result in nausea, vomiting, stomach pain or discomfort.
Eye:	Irritation, no corneal damage likely.
Skin:	Possible irritant. Prolonged or repeated uncontrolled exposure may lead to dermatitic effects.
Inhaled:	None likely, unless heated to extremely high temperatures, in which case irritation of the respiratory tract may occur.

First Aid

Swallowed:	DO NOT induce vomiting. Give a glass of water and contact a doctor or the Poisons Information Centre.
Eye:	Hold eye lids open and flood with water for 15 minutes. See a doctor.
Skin:	Remove contaminated clothing, wash affected area with soap and water. If swelling or blisters occur, seek medical attention.
Inhaled:	Not considered likely, however, if effects are perceived, remove to fresh air and rinse mouth and nasal passage with water.

PRECAUTIONS FOR USE

Exposure limits:	Not determined for this product.
Ventilation:	Conventional airflow is generally acceptable. In confined areas, exhaust fans should be utilised in accordance with proper safe handling procedures.
Personal protection:	Avoid contact with skin and eyes. Wear coveralls, rubber gloves and eye protection while handling.
Flammability:	Non flammable.

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SAFE HANDLING INFORMATION

Storage:	No special transporting requirements. When storing, do not allow to freeze and store below 35ºC. i.e. Store between 5ºC and 35ºC.
Spills and Disposals:	Pick up and consult local authorities for disposal. Alternatively, cure as per directions for use and landfill.
Fire/Explosion Hazard:	This product is non flammable, it may burn although auto ignition is highly unlikely. Fumes in the form of oxides of carbon and nitrogen will be evolved during combustion. Self contained breathing apparatus should be available for firemen and water sprays, foam, dry chemical or CO2 should be used.

This MSD summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSD and consider the information in the context of how the product will be handled and used in the workplace including use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the manufacturer.

PROLONG PRODUCTS ARE MANUFACTURED BY
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