



# BUILDROCK SHIELD PU 330

ELASTOMERIC HIGH PERFORMANCE  
POLYURETHANE LINING

## TECHNICAL SPECIFICATIONS & DATA SHEET

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### DESCRIPTION

- **BUILDROCK SHIELD PU 330** performs under highly aggressive environment.
- It is ideal for use on concrete & steel/metallic surfaces.
- It is very versatile in use and application.
- **BUILDROCK SHIELD PU 330** coating provides an impermeable, anti corrosive, chemical and salt resistant environment.

### TECHNICAL DATA

- Coverage : 1 sq.mtr. / ltr.
- Abrasion Resistance : Weight Loss 0.05gms ( Max )
- Adhesion : 2 N/mm<sup>2</sup>
- Resistance Temperature : Apply at 0°C to 80°C
- Recoverable Elongation : 50%
- Water Vapour Permeability : 0.28gms/24 Hours/ m<sup>2</sup>
- Surface Hardness : 40% (Min.)
- Tensile Strength : 17N/mm<sup>2</sup>

Chemical Resistance Immersion of 30 days in sea water

- % Weight Change : < 1.0%
- % Hardness (Shore D) change : < 5.0%
- % Tensile Strength Change : < 5.0%
- Flexibility : Pass over 12mm Mandrel
- Conformity : ASTM D-16 Type V

### USES (CONCRETE & STEEL)

- Coastal Structures
- Water Containment Structures
- Tank Linings
- Pipe Linings
- LPG Mounded Bullets
- Deck Coatings
- Corrosive Environments

The versatility of the product also helps it being used under certain other critical application.

### MECHANISM

**BUILDROCK SHIELD PU 330** comprises of two parts- an isocyanate & a polyol which when mixed in proportion forms a polyol which in turn when mixed in proportion forms a Urethane Lining.

### SURFACE PREPARATION

\*Abrasive cleaning/sand blasting/grit blasting conforming to SA 2½. (For concrete & steel).

#### For Steel

Round off sharp edges & rough welds. Burrs & weld spatter should be completely removed. Surfaces must be clean, dry & free of all dirt, chalk, grease, oils, salts & deleterious materials before application is performed

#### For Concrete

The blast nozzle should be kept at sufficient distance and moved quickly (sweep blasting) to avoid over blast and excessive exposure of aggregate. The blasted surface shall have the roughness of medium grade sandpaper. Any large size voids or concrete defects will be either flooded with the Elastomeric Polyurethane while spraying or previously filled manually with appropriate grout material.

### APPLICATION

With airless spray equipment (for lower gel time material plural component airless spray equipment with proportioning pump is recommended).

### MIXING

All equipment should be cleaned and flushed with thinner. Do not vary mixing proportions. Do not allow catalyzed material to stand in equipment after use

### PACKAGING

**BUILDROCK SHIELD PU 330** is available in 25 LTR.

### PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BUILDROCK construction chemicals web site.

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