

TECHNICAL DATA SHEET

SHIELD HP

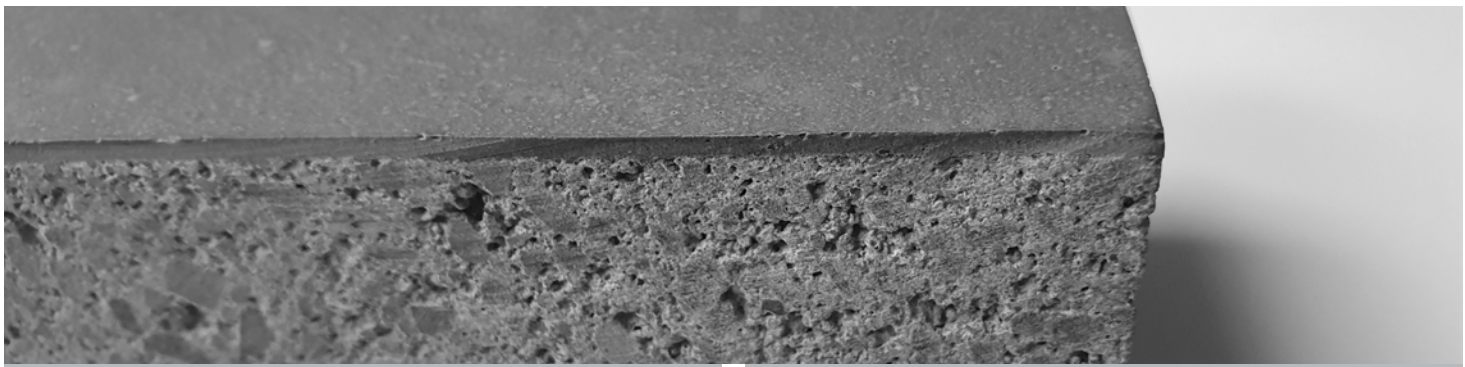
High performance, corrosion resistant coating system based on recycled glass

DESCRIPTION

Rockbond Shield HP is a high-performance cementitious coating system based on recycled glass, that has a high chemical resistance, a high wear resistance, and bonds to almost all substrates.

Shield HP is ideal for use in water & wastewater treatment plants, dairy sheds, and other areas where high chemical resistance is vital. Shield can be used on most stable substrates including concrete, brick, block work, and steel.





SPECIAL PROPERTIES

- High strength and flexibility
- Environmentally friendly
- Adheres in damp conditions
- Adhesion strength >2.00N/mm² on brickwork, concrete & steel.
- No priming required
- 3mm coating will provide a durable waterproof coating that is Acid & Alkali resistant
- Can be spray or roller applied.
- Drinking water safe
- 3 to 4 hours curing time
- Compressive strength >20Mpa whilst remaining flexible
- Sulphuric, Hydrochloric, Lactic acid and Hydrogen Sulphide resistant

USES

- Wastewater Treatment and Dairy Plants
- Cow Sheds
- Concrete & Steel Structures
- Manholes and Pump Stations
- Wet Wells and Reservoirs
- Swimming Pools and Storage Tanks
- Other applications: Wall & Floor Coating, Acid Protection, Critical Bund Coating

MIXING INSTRUCTIONS

Mix Rockbond Shield HP in a suitable container with a powered mixing device. Mix with clean potable water at a ratio of 300mls water to 1kg of product. Mix well for 2-3 minutes or until a creamy consistency is achieved. Rest for 5 minutes then remix adjusting the water if necessary to gain a consistency of thick paint.

SURFACE PREPARATION

The substrate must be clean and free from loose material. Wash with a high-pressure water system, degrease with a no residue degreaser if necessary to affect a clean surface. Repair any cracks, holes, etc with a thick mix of Rockbond Multi-Cote HP, or Rockbond Rapid Repair for any large problem areas. With any existing repairs it may be prudent to apply a test cover of Shield to test its adhesion. If Shield does not adhere removal of that product is required.

APPLICATION PROCEDURE

Apply with a roller, or a spray unit suitable for cementitious based products, to a thickness of 2-5mm. 2 coats maybe required to achieve this. If a second coat is required allow 3-4hrs between coats for the product to set - it should be firm to touch before recoating.

Temperature and air movement can affect the set time, so allowances will need to be made for this. Each application of Shield HP will take approx 30 mins to become tacky at an ambient temperature of 16°C. Do not apply under 7°C ambient temperature as this could affect the cement setting.

Shield HP may also be brush applied for smaller repair areas. Allow 3-4 hours curing, or until the product is dry to the touch before putting into service.

PACKAGING

The product is available in 10lt and 20lt pails and has a shelf life of 3 months when stored in cool, dry conditions.

HEALTH AND SAFETY

Rockbond Shield HP is a cement based product and contains no additional aggressive Products. See packaging for full details or contact our Technical Department for further details. Whilst Shield HP does not emit any obnoxious gases it would be prudent to ensure that adequate ventilation is provided when applying in confined spaces, such as tanks.

TECHNICAL DATA

Water/Powder Ratio	30%	
Consistency Life	30 Minutes	
Consistency	Paint Consistency	
	Days	MPa
Minimum Compressive Strength	28	20
Yield per 10lt (11kg) Pail	8.8lts	
Coverage	Each 10lt pail will cover 3m ² at 3mm thick.	

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team: +64 4 568 5401