

TDS

TECHNICAL DATA SHEET



HYDROSHIELD



PROUDLY NZ MADE



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Description



HydroShield is a water-based, solvent-free, two part epoxy coating for sealing and priming of concrete, plaster, brickwork and blockwork. When applied properly it will prevent rising damp, withstand hydrostatic pressure, prevent efflorescence and provide a top quality surface for additional waterproof membraned or adhesive laid vinyl's and tiles. The product is nonflammable, easily cleaned up with water and is suitable for uses in areas of difficult access or sensitive locations. The Cured Coating has excellent abrasion and chemical resistance and two coats will withstand constant immersion and light foot traffic.

Intended Uses

Prevent rising damp, withstand hydrostatic pressure, dry lining of cellars and retaining walls, and top quality surface for waterproofing coatings.

Practical Information

THINNING Maximum of 50% clean potable water.

DRYING TIME	TEMPERATURE	TOUCH DRY	HARD DRY	OVERCOATING TIME WITH SELF
	10°C	5.5 hours	6 hours	7 hours
	20°C	4 hours	5 hours	6 hours
	25°C	3 hours	3.5 hours	4 hours

Do not use below 8°C or above 35°C or when rain is imminent. Optimum conditions are between 15°C and 25°C and 60-85% relative humidity.



Surface Protection

Remove all loose material from the surface and make good any structural defects. Methods such as chipping, abrasive blasting, high pressure water blasting, mechanical or chemical etching/ scrubbing may be necessary.

The surface should be clean and free from grease, oil, wax, paint, dust and all contaminants. New concrete should be allowed to cure for at least seven days prior to application and all laitance must be removed.

Previous coatings should be removed thoroughly by mechanical means. Smooth or polished concrete should be profiled by either acid etching or mechanical abrasion to promote optimal adhesion.

Application

MIXING This material is a two-component coating system and should always be thoroughly mixed before application in the correct ration.

MIX RATIO 4:1 by volume of Part A to Part B – may be diluted to application viscosity after mixing both components. Roller application with an 8mm nap will require giving an DFT of 180 – 220 microns per coat.

BRUSH Suitable for small areas – multiple coats may be needed to achieve the required dft.

ROLLER Suitable for small areas. Typically 180 – 220 microns wet film per coat.

THINNER Clean potable water.

CLEAN UP Warm water and detergent before the product cures. Minimise the amount of product entering the aquatic system by wiping with rags and disposing of them in sealed bags once the product has cured.

POT LIFE Once mixed HydroShield will remain workable for 2 hours at 25°C, mix in the supplied containers to avoid seeding of the product with partially cured material.

WORK STOPPAGES Do not allow material to remain in hoses or spray equipment for more than 60 minutes.

Precautions

Hydroshield is intended for use only by professional applicators in industrial situations in accordance with industry best practices.

All work involving the use and application of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards and regulations.



Packaging

4L kits Part A + B
8L kits Part A + B
20L kits Part A + B

Shelf life = 24 months in original unopened packaging and well stored.

Product Characteristics

RESIN TYPE	Epoxy
SOLVENT TYPE	Water
SOLIDS	50%
pH	NZ
ACID VALUE	Zero
COLOUR	Part A grey, Part B Straw
SPECIFIC GRAVITY	Part A 1.10Kg/L Part B 1.02 Kg/L Mixed A + B 1.10Kg/L typically
ELONGATION	30%
VOC	1%
RECOAT TIME	4 hours @ 25°C and 50% RH
FULL CURE	7 days @ 25°C and 50% RH
POT LIFE	90 - 120 Minutes @ 25°C
ADHESION ASTM 4541	8N/mm ²

Negative water pressure = 250kPa when applied at 300 microns dry file and fully cured.
Positive water pressure = 400kPa when applied at 300 microns dry film and fully cured.



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