



Research & Applied Technologies

Suppliers of Waterproofing Systems & Facade Coatings

Permaflex® S200 Primer

Technical Data Sheet

DESCRIPTION

A multi-use water-borne epoxy primer for use on most building surfaces. Generally used as an adhesion-promoting primer, or in situations where solvent release during application is not desirable. Where high-gloss and trueness of pastel colours is not important, it is suitable as a finish coat. A pigmented two-component water-borne epoxy coating based on a modified epoxy resin and polyaminoamide curing agent combination.

COLOUR / BATCH

Standard colours:- off-white and grey - Colours can be supplied, subject to minimum order quantities. Colours will be near-match only.

Available in 3.5 and 9 litre batch units. Units A and B are both packed in plastic pails.

BENEFITS

Exhibits excellent adhesion to most common building materials, particularly those that are mineral-based. Surface should be sound, clean and free from laticence. Can be applied to damp concrete masonry surfaces.

TECHNICAL DATA

Liquid Material	Unit A	Unit B
Mixed		
Solid Volume : 45%	99%	21%
Specific Gravity: 1.21	1.67	1.01
Flash Point:	>100 C	--
Shelf Life:	3 years	2 years
Appearance: Brown	Pigmented	Clear

Applied Coating:

Wear Resistance (ASTM D1043-73) <55mg/1000 cycles

Chemical Resistance:

- Fresh water - excellent
- Brine & salt - excellent
- Fuels & Greases - excellent
- Petrol & Hydrocarbon - excellent
- Caustic Soda 10% - very good
- Inorganic acids - fair to poor
- Organic acids - not recommended
- Suitable for potable water application

APPLICATION

Concrete and plaster: Surface must be free of all contaminaton, clean and touch dry. Surface imperfections should be filled with epoxy mortar.

Steel: Surface should be prepared and primed with suitable epoxy metal primer.

Old painted surfaces: Should be sanded clean, with all unsound material removed. Check compatibility with a test patch before coating large areas

Stone, slate and tiles: Surface must be free of all contamination and friable material.

Glazed tiles: Abrasive grind to 'open' the surface.

Units A and B for a batch should be thoroughly mixed, adding A to B and drill mixing for 4 - 5 minutes until completely homogenous. The mixture must then be diluted with clean water in proportions depending on the end-use.

Primer: 1.3 - 1.5 litres water per 3.5 litre unit

Bodycoat: 0.5 - 0.8 litres water per 3.5 liter unit.

Application may be by brush or roller.

Spreading rate

As primer 6-10 m2/litre depending on surface density.

As bodycoat 5-7 m2/litre

All rates are per litre as supplied. Recommended d.f.t for a 3 coat system (undiluted) is 160-180um.

Pot life: As primer (maximum dilution) 4-6 hrs

As bodycoat (minumum dilution) 1.5-2 hrs

Dry Time: As primer 4-6 hrs {dry/recoat 16-24 hrs}

As Bodycoat 4-8 hours dry/recoat 24-48

hours

Cure Time: 7-10 days for full 3 coat system.

{Under normal conditions:- 15 C60% R.H}

Note that low temperatures and/or high humidities will considerable retard dry and cure times. Do not apply in temperatures below 5 C or relative humidity greater than 85%.

Thinning/Clean up: Thin with clean tap water, clean up gear by rinsing with water then wiping with Xylol.

HEALTH & SAFETY

Barrier cream must be usedwhen handling S200 to prevent epoxy sensitisation and possible dermatitic effects. Store above 0° C to prevent possible deterioration in unmixed components. Do not smoke while handling the materials.

Transport Classification: Unit A - no restriction

Unit B - no restriction