

PDS No: 9076

Product Details

Product Code: 58197 (58197/A Base:58197/B Hardener)
Product Name: 2 Pack WB Epoxy Gloss Topcoat
Other Name(s): 2K water based epoxy topcoat

Description

A premium epoxy coating with the adhesion and abrasion resistance of solvent based epoxies but with the ease of application found in water based products. Resistance to common solvents is slightly better than solvent based epoxy systems. Resists water blasting and steam cleaning. May be applied to damp surfaces.

Aqueous epoxy flooring which provides a quick drying, low odour option. Suitable for light commercial and domestic areas. Can also be tinted to custom colour if required.

An environmentally friendly water based epoxy floor coating with a minimal degree of yellowing. Contains ≤50g/L VOC and no Benzyl Alcohol.

Features and Benefits

Flooring and walls which require a non porous chemically inert and abrasion resistant finish. Such places include hospitals, schools, restaurants, abattoirs, milking sheds, dairy factories, the chemical industry and other medium to heavy industries.

- Chemical resistant
- Excellent gloss retention
- Extremely hard wearing, durable finish
- Impact resistant
- Water dispersible.
- Water wash-up.
- Very low odour.
- Tintable.
- Excellent adhesion to damp but not wet substrates
- Concrete can be GREEN and does not need to cure 28 days.
- 2-4 hour drying time.
- Recoat time – 4 hours.

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- Good adhesion with hydrostatic pressure
- Roller Application or Bursh Application.

Limitations and Precautions

Do not apply if the air or surface temperature during application and drying is likely to fall below 10oC or when humidity is above 80%. Gloss level will be reduced when cured at low temperatures/high humidity due to bloom. Not suitable for prolonged exposure to acids. Will lose gloss and chalk if used as an exterior coating.

Physical Properties

Resin Type	Epoxy / Amine
Pigmentation	Titanium / Extenders / Tinters
Odour	Low to Neutral
Colour	White, Grey and Custom Tinted Colours.
Opacity	Opaque
Gloss at 60° viewer	Gloss
Typical gloss terminology:	Semi Gloss
Full gloss	85% – 100%
Gloss	70% – 85%
Semi-gloss	35% – 70%
Safin	25% - 30%
Low sheen	5% – 19%
Flat	0% – 4%
Specific Gravity(Kg/Litre)	1.49 Kg/L (Part A) 1.16 Kg/L (Part B) 1.43 Kg/L (Part A + Part B Mixed)
Volume Solids	86% (part A & B combined)
Coverage (m²/Litre)	7.5-10 m2/kg/coat. Coverage depends on surface profile and porosity.
No. of coats	2
Flow & Levelling	Excellent
Bubble Formation	Excellent
Hardness	Excellent
Dry Times(at 20°C and 60%RH)*	2 hours (touch dry)
*(cooler temperatures, higher film thickness and higher humidity can extend the drying time)	
Recoat time	24 hours
Cure	Overnight (20°C/65% RH)
Walk On Time	20-24 hours (20°C/65% RH)
Sealer	APCO 2K WB Epoxy Sealer
Wet Film Thickness (µm)	150 µm
Dry Film Thickness (µm)	70 µm
Flash Point	Not applicable
Packaging Sizes	10 L, 4 L
Thinner and cleanup	Water
Theoretical VOC(g/Litre)	Not Determined
Pot Life	90 minutes

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Mix Ratio (A:B)

104.7:25 (weight)
4:1 (volume)

Pack 90% by Volume. Allow 10% for tinting and thinning by customer.

Packing Ratio A : B	Part A	Part B
Packing By Weight for 4L	4.100 Kg	0.980 kg
Packing By Volume for 4L	2.750 Litres	0.850 Litre
Part A + B percentage ratio	80.72%	19.28%

Surface Preparation

To ensure a successful application all surfaces to be coated must be clean, dry and stable. All cracks and joints need to be treated as appropriate to suit the situation. Do not expect paint to bridge moving cracks/joints successfully.

Any mould, moss or algae needs to be treated with a suitable chemical cleaner/inhibitor. Ensure surfaces are free from oil, grease and any surface contamination. Use commercial detergent/alkali cleaner, not acid wash.

Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advise.

CONCRETE, CEMENT PLASTER, OLD AND NEW:

Seal any cracks and joints with an epoxy rigid filler. For optimum results, abrasive grind the surface to achieve a uniform, open profile (Diamond grinding recommended).

We recommend that this is carried out by a concrete grinding specialist. Surface contamination such as oil, grease etc. needs to be thoroughly removed, as this will adversely affect adhesion and visual appearance of the coating.

Old concrete in very poor surface condition (weak and porous) can be consolidated and sealed prior to painting with APCO 2K WB Epoxy Sealer Clear.

PRODUCT TECHNICAL DATA SHEET

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APCO 2K WB Epoxy Sealer Clear. (see Data Sheet).

New concrete may also be prepared by light grinding or treatment with a concrete etch applied via broom or spray. Allow the reaction to occur for 15-20 minutes before washing off with potable water. Allow to dry.

WOOD:

Will give a good finish on most timbers without the use of a primer. Some soft or porous timbers will benefit from the use of APCO 2K WB Epoxy Sealer Clear.

Primer / Sealer Requirements

Seal concrete with APCO Waterbased 2K Epoxy Sealer if surface is rough or particularly porous.

Application and Process

Application System	Direct On substrate
Substrate Used	Fibrolite Cement Board/ Concrete floor
Method of Application	Roller/Brush
Flow & Levelling	Excellent
Bubble formation	Excellent
Adhesion	Excellent Cross Hatch
Sheen (Visual)	Glossy

Mix Part B into Part A with a broad paddle for 2-3 minutes, ensuring that the sides and bottom of the pot have been completely mixed in. Allow to stand for a further 10 minutes. Stir for a further minute.

AIM TO COMPLETE APPLICATION OF THE MIXED CONTAINER WITHIN 1 HOUR.

Brush and Roller:

Can use product as is or add up to 15% potable water if high temperatures or windy conditions. This will ease roller/brush drag and assist in keeping a wet edge.

Roller:

Use an 10-15mm nap dacron roller.

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Spray:

Recommend an airless unit. Pressure 2,500psi max and a 519 or larger tip. Add up to 15% potable water if necessary.

End of pot life is observed by a rapid increase in pot viscosity. Note: In hot weather the pot life will be shortened.

Prior to recoating, test the coating by pressing your thumb into the coating for 2 seconds. Recoat only if no impression is made in the coating. Recoat within 5 days. If longer than 5 days elapses before recoating surface should be first sanded using 120-150 grit sandpaper. Thoroughly remove sanding dust by vacuuming and washing.

It is important to note that thinning of the product with water will improve the application and dry film appearance, particularly if the floor is unsealed, or the weather is hot and dry. Thinning by up to 15% will allow quicker application and will prevent uneven gloss and colour which is caused by back-rolling over product which has started to cure.

SECOND COAT MUST BE APPLIED WITHIN 24 HOURS OF PREVIOUS COAT.

Thinning & Clean Up

Maximum thinning 15%. ONLY thin after parts A and B have been homogenously mixed in together. Clean up in water. Use a small amount of detergent to aid clean up.

Health and Safety

- Please refer to Safety Data Sheet before use

First Aid:

- Eyes and Skin irritation – Wash with large amounts of fresh running water
- If swallowed – drink 2-3 glasses of water and seek appropriate medical advice.

- Inhalation-In case of exposure to high vapour concentration leading to dizziness,nausea,headache ,move the person to fresh air environment and consult a doctor

2 Pack water based gloss epoxy sealer clear is a water reducible non toxic coating. It is non flammable and requires no specific handling. We recommend the use of a barrier cream for hands when applying.

Transport	:	Not Applicable
Class	:	Not Applicable
Hazchem	:	Not Applicable

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Storage

Avoid freezing or temperatures in excess of 50°C. Self Life 12 Months

Environmental

DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET.

Spillage and Disposal

Use rags or sawdust to contain any spill and then dispose of through a commercial waste disposal organisation.

*Please refer to the updated versions of Safety data sheet(SDS) and Technical Data sheet (TDS) before using any **APCO** Product.*

KEEP OUT OF REACH OF CHILDREN

APCO Coatings (NZ) Limited

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