

APCO Rapiddry Polyaspartic PoolKote Finish

Production Description

This product is a very hard and durable 2 pack Polyaspartic coating suitable for atmospheric and immersion conditions. This system provides long term and easily maintainable protection for fibreglass and concrete surfaces with very good resistance to impact, abrasion, fungus, bacterial growth, acids, alkalis and pool chemicals. Rapiddry Polyaspartic Poolkote finish also has extremely low water & water vapour permeability. This is suitable for freshwater and Salt water pools. This is also suitable for fibreglass pools. Primer is essential for fibreglass pools. APCO Rapiddry Poolkote finish is UV resistant and does not chalk even if the pool is empty. It is also supplied in clear for Pebblecrete pools.

Areas of Application

Mainly designed for new fibreglass and concrete swimming pools, the product can also be used for the protection of other suitably primed substrates.

Technical Data

Colour Range	Clear, White, Ocean Blue, Pool Blue, Pool Green, and some assorted colours from the Australian Standards AS2700 colour range.
Gloss Level at 60° head	Minimum 60%
Solvent Resistance	Highly resistant to common solvents. However resistance towards acetone is only fair.
Toxicity	Dry film is not toxic
Thinning & Clean Up	Xylene or PA thinner
Thinning Rate	Up to 10% Xylene (or PA thinner) depending on method of application and climatic condition.
Theoretical Coverage**	5 m ² /litre per coat @ 100 microns DFT. Practical coverage may depend on surface profile, method of application and losses.
Pot Life***	1 hour at 25 C.
Mixing Ratio (Base: Hardener)	3 part base to 1 part hardener by volume
Drying Time (at 25C & RH 60%)*	Touch dry: 8 hours* / Recoat: 16 hours*
Packs available	2.7 litre
Approximate Vol. Solids	100 %

*Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

**Practical coverage may depend on surface profile, method of application and losses. Higher film thickness will lead to lower coverage.

***Must use within the specified time otherwise the paint will start curing in can and will not be suitable for application anymore.

Drying and re-coating times (@60% RH).

Surface temp °C	Touch Dry	Dry to Handle	Full Cure	Minimum Recoat	Max Recoat
10°C	12 hours	48 hours	10 days	22 hours	Indefinite
23°C	8 hours	16 hours	5 days	16 hours	Indefinite
30°C	6 hours	12 hours	3 days	12 hours	Indefinite

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Note

Cooler Temperatures, higher film thickness or higher humidity conditions will require longer drying time. The best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure intercoat adhesion.

Temperature of the paint before application: min: 10°C, max: 30°C.

Substrate temperature: min: 10°C, max: 35°C.

The temperature of the substrate should be at least 3°C above the dew point of the air. Air temperatures and relative humidity must be measured in the vicinity of the substrate.

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Method of Application

Prime the concrete surfaces with APCO Rapiddry Primer and allow 8 hours for this coat to touch dry. Brush Roller or Spray. Please use the method best suited to your requirement and skill. Stir the contents thoroughly using a broad paddle. On bare concrete and cement render, apply first coat with 20-30% dilution to seal the surface. Follow with two full coats. Ensure minimum 24 hours recoating interval. Do not paint when the temperature is more than 30 degree centigrade or in windy conditions. In case of repainting, apply one or two full coats depending on the condition of old paint. If rain occurs during any part of the paint process, allow an extra day of dry time for each day of rain. Rain or moisture will affect the top layer of fresh paint film by causing a slight flat finish or white patches. If all previous surface preparation and dry times have been adhered to, you can either apply a light coat of fresh paint or wipe the affected areas with a small amount of the recommended thinner. It is recommended to use a non-skid additive to the paint for shallow pools to help reduce liability on possible injuries sustained if a person slips and falls. Rapiddry paint surfaces can be very slippery and caution should be used in the application to steps without a non-skid additive. Normal paint curing time is 7 dry days before filling the pool with water. The pH level of the new concrete should be around 9.0 to 10.0 before painting.

Airless Spray Application recommendations

Thin the product 5% with Xylene and mix well. This will give an even spray pattern and good coverage. The Wagner Finish 207 (or similar unit) will spray the product but we suggest for very large projects use the model 700H. (or similar unit)
Airless Spray Unit: Wagner Finish 207, Everspray 4500, 700H
Tip Size: Maxi Tip MT621 or Std Tip 009621
Gun filter: White (50 mesh)
Operating Pressure: 3500 psi
After spraying it has to be rolled to give a smooth and even finish.

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Surface Preparation

Remove all surface contamination and ensure the surface clean and dry and free of dust, dirt, grease, etc. Wash thoroughly to remove any calcium stains, bio-film build up and any other contamination, and rinse with clean water. Repeat cleaning procedure if necessary. If mould or fungus is present on the surface, wash with a commercially available bleaching agent and then treat with antifungal solution. For previously painted surfaces, remove all loose and flaking paint. Check cross cut adhesion test of old paint before repainting. Sand with 60 grit mesh sandpaper to reduce previous film to a flat finish. The surface should be rough enough to enable good adhesion.

New concrete surfaces must be fully cured and treated before application of this product.

If painting over old and fully cured epoxy paint, this product can be applied directly after proper cleaning. Primer must to be given in these conditions.

Application

Stir the content thoroughly using a broad paddle. On a bare concrete and cement render, apply first coat with 5-10% dilution with Xylene or PA thinner to seal the surface. Follow with 1-2 full coats. Ensure minimum 12 hours recoating interval. (refer to drying time table above) Do not paint when the temperature is less than 10 or more than 30 degree centigrade and also in windy condition. In case of repainting, apply one or two full coats depending on the condition of old paint.

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Mix and Colour Check

Mix the paint before application with a wide flat (25mm) paddle or a hand paint mixer with a perforated base, in a circular lifting motion from the bottom of the container for 5 minutes or until the paint and colour are thoroughly mixed. Remix the paint every 2 hours to ensure product consistency.

Check colour to the colour chart/standard prior to application. Inner mix multiple containers together to ensure colour consistency. Replace and secure container lid during painting to prevent the paint drying within the container.

Coating Maintenance

Washing the painted surface periodically will maintain the look of a newly painted surface longer. Clean the surface with a diluted sugar soap or a mild detergent and rinse well with clean water.

Do not use scouring pads, abrasive brushes, high pressure washing or solvent to clean the painted surface. These will damage the paint film and cause premature failure of the coating.

Flammability & Transport

- Non Hazardous. No Odour

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- Keep away from heat and flame, eliminate any source of ignition.
- Soak all used cloths and rags immediately in water to prevent self-ignition.
- Ensure container is upright with lid secure.
- Ensure the container is secured in the vehicle for transport.

Environmental

- Do not wash painting equipment and allow waste to enter drains and water ways.
- Do not dispose of unwanted paint and thinners that will enter drains and water ways.
- Refer to state / local EPA and council web sites for environmental and safe disposal details.

Safety & Precautions

- Do not apply when surface temperature is below 10⁰ C or over 35⁰ C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Once two components are mixed, must use within its pot life as specified in earlier section.
- Apply in calm fine weather conditions and only during daylight hours.
- Cease painting 2 hours before sunset or if weather changes are forecast.
- Use only the recommended thinner for dilution and cleaning.
- Check paint colour to the colour chart/standard prior to application
- Provide adequate ventilation during use.
- Keep out of reach of children
- Avoid exposure of the new paint film to steam for 48 hours and to washing or scrubbing for 7 days.
- Check cross cut adhesion test of old coating before repainting.
- Apply a test sample for compatibility of this product over a small test area.
- Always refer to SDS prior to commencement of painting jobs.

The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

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