



High Performance Paint Specification



PS-CR01

RE-PAINTING A SWIMMING POOL WITH AQUA 1K SINGLE PACK POOL PAINT

INTRODUCTION:

COTEC Aqua 1K is a paint formulated especially for swimming pools where a single pack approach is required. Once single pack paint is used, a two pack product CAN NOT be applied over the top.

As with all swimming pool coatings the end result is only as good as the preparation. Poor preparation will lead to the following failures:

- * Blistering
- * Loss of adhesion (peeling).

PROCEDURE:

- 1 The first stage is to identify the existing coating. It would normally be one of the following:
 - a) Chlorinated Rubber
 - b) Epoxy two pack
 - c) House paints (e.g. Acrylic) or miscellaneous product.

If it is the latter (c), the product must be removed. Refer to PS-C002 Abrasive Blast Cleaning of Concrete and Painted Surfaces.

CHLORINATED RUBBER – Identification can be made by using method PS-C003 Chlorinated Rubber Paint Identification Test. Then follow the steps outlined below.

EPOXY PAINT – Prepare the surface by grinding or lightly sandblasting the surface. Refer PS-E004 Re-Coating an Aged Epoxy Coating with Epotec over concrete.

- 2 PREPARATION OF A CHLORINATED RUBBER AGED SURFACE:

The surface must be sound and free from dirt, grease (body fats) and particularly chalking and Calcium build up on the surface before re-painting. Only re coat existing coatings that are sound and show no sign of blistering or flaking.

2.10 Blistered/flaking paint. These areas must be ground/sandblasted or power sanded to break the blisters or remove the loose paint back to the concrete. Flaking of Chlorinated Rubber is often the result of multiple layers of paint having been applied over a long period of time and once more than 3 or 4 layers are on the pool the whole paint film is likely to fail and should be removed prior to repainting.

2.11 Wash/water blast the entire surface with a detergent solution suitable to remove fats. Refer to PS-C007 Making Concrete Oil/Grease Free. If the surface is “white” and has a hard layer of Calcium deposit or is badly chalked then this layer must be removed. Failure to do so will lead to loss of adhesion of the paint. Chalking must be abraded or Soda blasted off, and the lime build can be dissolved off with Hydrochloric acid but it is often more expedient to Soda blast. Once the surface contaminants have been removed, hard sand the whole paint surface to a fully matt finish.

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2.12 Normally bare concrete areas after (sanding/wire brushing/blasting) are ready for painting but will need sealing first with Concrete WB Epoxy Sealer. If the concrete has a polished surface, give the bare concrete an acid etch treatment. Refer to PS-C001 Acid Etching of Concrete with Hydrochloric Acid.

2.20 If the surface is sound (no defects) follow 2.11 to clean the surface from oils/fats then continue with the application of two full coats after sanding.

3 COATING APPLICATION:

Stir well before use. The surface must be dry (moisture will usually cause blistering at a later date).

3.10 Brush and Roll. Use a short pile (10mm maximum) Draylon roller. Apply with a full roller, and do not roll excessively.

3.20 Spray Application.

- * Airless. Recommend spray tip 515 to 621, depending on the volume of the pump and pressure. Work with approximately 2500 psi.
- * Conventional (pot gun). Use JGA 502 gun with E fluid tip/needle, and 704/768 air cap or equivalent. Air pressure 50-80 psi. (A lower air pressure is preferable to a high pressure).

IMPORTANT: Apply early in the morning or at the end of the day when the concrete is cooling (say 4-6pm).

4 WHEN CAN THE POOL BE FILLED?

The paint may appear dry after 6 hours however it takes time for the paint film to reach full cure and we recommend that it is left for 7 days before filling.

REFER TO THE FOLLOWING SPECIFICATIONS:

PS – C001	Acid Etching of Concrete with Hydrochloric Acid
PS – C002	Abrasive Blast Cleaning of Concrete and Painted Surfaces
PS – C003	Chlorinated Rubber Paint Identification Test
PS – C007	Making Concrete Oil/Grease Free
PS – E004	Re-Coating an Aged Epoxy Coating with Epotec Over Concrete

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