



High Performance Paint Specification



PS-C002

ABRASIVE BLAST CLEANING OF CONCRETE AND PAINTED SURFACES

INTRODUCTION:

The total or partial removal of a paint system off concrete is a difficult process. The options are either to grind the surface using commercial diamond grinding equipment (which is labour intensive) or blasting using a controlled method. This specification describes the latter process.

The blasting process has a number of variables.

- 1 The type of blasting media (sand, garnet, calcites, Soda etc.),
- 2 The process (wet or dry),
- 3 Nozzle types and pressure control.

To effectively control the cleaning and removal of paints the operator must have a good understanding of these variables, otherwise the blasting can erode the concrete severely, which can mean the surface will need to be re-plastered before coating. Epoxy coatings can be surface profiled using light sweep blasting if they are in a sound condition. Chlorinated Rubber coatings being thinner and softer are generally best being completely removed. All coatings that are flaking, blistered or in poor condition should be completely removed.

Pools in sensitive areas such as schools and places where dust cannot be tolerated we recommend the use of Soda Blast or particularly UHP water blast as both these processes are cleaner and more environmentally acceptable.

PROCEDURE:

- 1 Engage an operator that can prove that he can carry out the desired process.
- 2 If the job is of sufficient size, request that the operator completes a small trial area to the satisfaction of the coatings supervisor.
- 3 If the existing Epoxy coating is in sound condition, blast clean the surface to remove the oxide layer completely leaving a texture similar to 100-120 grit paper. It is NOT necessary to remove all the previous sound epoxy.
 - 3.1 If blisters are exposed from inter-coat adhesion failure, blast the tops off until the same texture is produced on the underlying surface of the blisters and the top layer is adhering well.
 - 3.2 If the coating is removed completely from the concrete, blast to clean the concrete but take care not to erode the concrete un-necessarily.
- 4 Sweep all debris and remove as much as possible off the site.
- 5 Water blast to clean any fine dust trapped in the texture produced by the blasting.

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Freedom from patent restrictions is not implied.

- 6 Allow to dry.
- 7 If the surface has been taken back to the concrete, apply one coat of CONCRETE WB EPOXY SEALER. If the existing coating has just been cleaned and profiled, apply EPOTEC NT EPOXY or EPOTEC 1K AQUA as per instructions. Refer to PS-E004 Re-coating an Aged Epoxy Coating with Epotec over Concrete.

APPROVED PROCESS OPERATORS

There are a number of sand blasting operators throughout New Zealand. Also Soda Blasting and UHP Water blasting is now available and COATING TECHNOLOGIES LTD can assist with contact details for these operators.

HEALTH AND SAFETY:

Comply with all site and operational requirements of the blasting contractor. Coating Technologies Ltd takes no responsibility for any activities during the blasting operation.

REFER TO THE FOLLOWING SPECIFICATIONS FOR RELATED INFORMATION:

PS – E004 Re-Coating an Aged Epoxy Coating with Epotec over Concrete

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