

The road to successful flooring starts with successful floor preparation.

The aim of floor preparation is to remove substrate contamination, remove previous coatings, remove the laitance layer of concrete and to provide a substrate that is clean, dust and debris free and of specific importance in all cases provide the correct surface profile for the system being applied.

There are various methods of preparation available to achieve the desired profile, choosing the correct method, utilising the correct machinery will enable cost effective, efficient successful floor preparation.

### Methods of Preparation

- 1) Captive Shot Blasting
- 2) Vacuum Enclosed Diamond Grinding
- 3) Mechanical Scabbling / Planning
- 4) Impact Bush Hammering
- 5) Acid Etching – (not generally recommended for floor toppings)

For generic use the International Concrete Repair Institute (ICRI) has created a guideline,

*“Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Floor Topping Overlays.”*

it provides concrete surface profiles (CSP) that can be used under the following conditions:

- CSP 1 – Application of penetrating sealers only
  - **Crystal Seal, Diamond Seal**
- CSP 2 – Application surface seals
  - **Revathane, Aqua clear**
- CSP 3 - Coating applications under 1mm DFT
  - **Rapidcoat, Terratuff, Terraflake, Situclad, Situclad VE**
- CSP 4 to 5 - Coating applications 1mm – 4mm DFT
  - **Surecote System 200, Traxite, Nuthane MD, Surecote SLE, Intafloor ZV**
- CSP 5 to 6 - Screed Topping applications 3mm+ DFT
  - **Nuthane SB, Sureshield SB, Supascreed SB Sureshield, Decorative Terrazzite, Supascreed, Nuthane T, Architectural Terrazzite, Surechem VE**
- CSP 7 to 8: Screed topping applications were extreme site, environmental or in service conditions applied.
- CSP 9: Generally too heavy for a resin topping and prefill screeds would be required first.

## International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) Scale



Floor preparation equipment is available for further advice or information do not hesitate to contact the allnex technical team.

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Date: April 2020  
Replaces Aug 2019

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