

Concrete Surface Preparation Guide

Use this guide to identify the surface profile of your concrete. CSP 1 being the indicator for a nearly smooth floor and CSP 10 indicative of an extremely rough floor. The range of variation will depend on strength, composition, aggregate and finish. **CSP 1-4 not recommended with cement based products.**



CSP 1

Ideal Applications

- Sealers 0-3 mils

Desired Finish Profile: 27 mils

- Wire brush
- Acid etch

Methods

Tennant scrubber with wire heads or chemical stripper



CSP 2

Ideal Applications

- Sealers 0-3 mils
- Thin films 4-10 mils

Desired Finish Profile: 32 mils

- Diamond grind

Methods

Grinder with 30 grit metal-bond tooling



CSP 3

Ideal Applications

- Thin films 4-10 mils
- High-build coatings 10-40 mils

Desired Finish Profile: 38 mils

- Fine erase
- Diamond shave
- Light blast

Methods

Grinder with PCDs or shot blaster



CSP 4

Ideal Applications

- High-build coatings 10-40 mils
- Self-leveling toppings 50 mils - 1/8"

Desired Finish Profile: 50 mils

- Med erase
- Very fine strip/scrape
- Light/med blast

Methods

Floor grinder with bush hammers, shot blaster or scarifier



CSP 5

Min. Recommended Surface Prep

Ideal Applications

- High-build coatings 10-40 mils
- Self leveling toppings 50 mils - 1/8"
- Polymer overlays 1/8" - 1/4"
- Concrete overlays & repair materials 1/4" +

Desired Finish Profile: 66 mils

- Coarse erase
- Fine scarify
- Med blast
- Fine strip/scrape

Methods

Floor grinder with bush hammers, shot blaster or scarifier



CSP 6

Ideal Applications

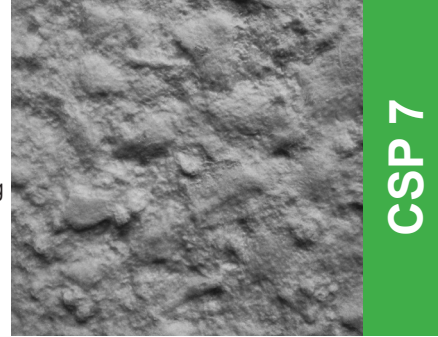
- Self-leveling toppings 50 mils - 1/8"
- Polymer overlays 1/8" - 1/4"
- Concrete overlays & repair materials 1/4" +

Desired Finish Profile: 125 mils

- Med scarify
- Med-heavy blast
- Med strip/scrape

Methods

Shot blaster or scarifier



CSP 7

Ideal Applications

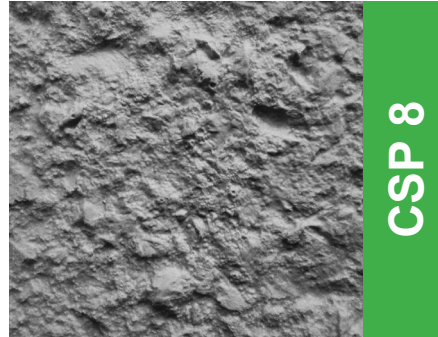
- Polymer overlays 1/8" - 1/4"
- Concrete overlays & repair materials 1/4" +

Desired Finish Profile: 175 mils

- Med-coarse scarify
- Med-heavy blast
- Med-coarse strip/scrape

Methods

Shot blaster or scarifier



CSP 8

Ideal Applications

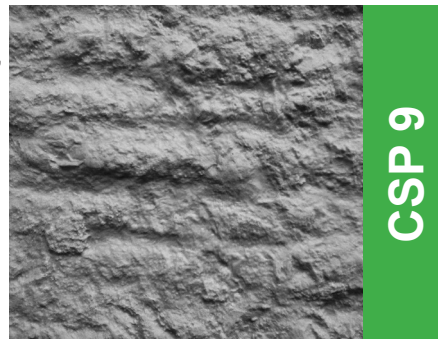
- Polymer overlays 1/8" - 1/4"

Desired Finish Profile: 210 mils

- Coarse scarify
- Coarse scabble
- Fine plane

Methods

Scarifier or scabblor



CSP 9

Ideal Applications

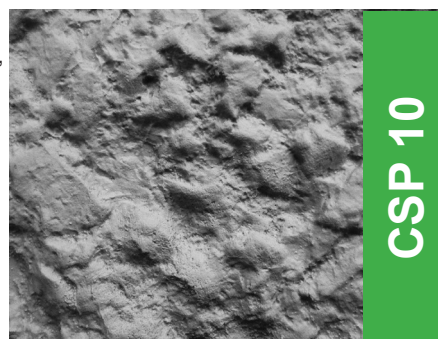
- Polymer overlays 1/8" - 1/4"

Desired Finish Profile: 214 mils

- Very coarse scarify
- Medium plane

Methods

Scarifier



CSP 10

Ideal Applications

- Concrete overlays and repair materials 1/4" +

Desired Finish Profile: >250 mils

- Coarse plane

Methods

Scarifier