



presents

Why use surface preparation to enhance
aesthetics in concrete repair?



What is surface preparation?

Surface Preparation Simple Definition :

- Surface Preparation is a chemical or mechanical method / process to clean and etch the surface of: concrete, natural stone, brick, block and steel.

Why use surface preparation?

Proper surface preparation is critical for :

- Providing a clean sound substrate
- Providing an anchor profile for coatings and overlays
- Preventing / reducing coating and overlay failures
- Reducing the number of TSDNW calls

Is correct surface profile critical?

Correct surface preparation can save time and money.

- Reducing the number of call backs
- Increase productivity
- Reduce labor costs
- Reduce material costs
- Reducing the number of TSDNW calls



thank you for your time

Blastrac
13201 North Santa Fe Ave.
Oklahoma City, OK 73114

800.256.3440

blastrac.com

Diamatic
5221 Gaines Street
San Diego, CA 92110

866.295.5512

diamaticusa.com



Why Use Surface Prep Cont'd?

What do we do next?

- Define each surface preparation method
- Present a project
- Apply each method to the project
- Provide the correct surface profile
- Reduce the number of TSDNW calls

Surface Preparation Methods/ Processes

What is scraping?

- Utilizes down force per square inch, shear angle and surface feet per minute.
- Does not create a profile
- Excellent for removal of VCT, carpet, ceramic tile and rubberized membranes
- Platforms consist of walk behind and ride on units

Surface Preparation Methods/ Processes

What is scarifying?

- Utilizes compression and fracture by blunt for trauma.
- Rotating drum with multiple shafts rotates at high speed. Drum is lowered to work surface and cutter impact results in removal of material
- Excellent for removal of thick and soft materials
- Provides CSP₄, CSP₆, CSP₈



Surface Preparation Methods/ Processes

What is diamond grinding?

- Utilizes compression and fracture, down force per square inch and surface feet per minute.
- Diamonds are held in either a metal or resin matrix
- Platforms consist of hand held, single head, multiple head linear action and planetary action
- Produces CSP₂ and polished surfaces



Surface Preparation Methods/ Processes

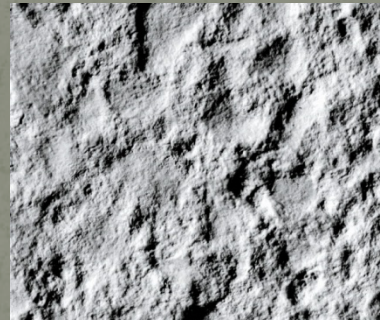
What is shotblasting?

- Shotblasting incorporates the use of a high speed blast wheel that propels steel shot in a controlled pattern at high velocity toward a substrate. The impact of the steel shot abrades and removes contaminants while etching the surface. The steel shot rebounds into an air wash separator. It is then cleaned and returned to the blast wheel for reuse

Surface Preparation Methods/ Processes

Shotblasting Cont' d?

- highly efficient
- Excellent for removal of thin and hard materials
- Provides CSP₃ thru CSP₈



Aesthetics
IN CONCRETE REPAIR
2010 Spring Convention
APRIL 14-16, 2010 • MYRTLE BEACH, SC



Defining the Project

Existing 15K sq. ft.
Pool Deck area •
10K sq. ft. of failing
rubberized
membrane

- 2500 sq. ft. of
ceramic tile
- 2500 sq. ft. of
broom finished



Aesthetics
IN CONCRETE REPAIR

2010 Spring Convention
APRIL 14-16, 2010 • MYRTLE BEACH, SC



Defining the Project

Refurbed 15K sq. ft. Pool Deck area

- 12,500 sq. ft. stamped overlay on pool deck and sidewalks
- 2500 sq. ft. colored & polished concrete cabanas and bar area



Aesthetics
IN CONCRETE REPAIR
2010 Spring Convention
APRIL 14-16, 2010 • MYRTLE BEACH, SC

Applying the Method/Process

Existing 10,000 sq. ft. of failing membrane

- Scarifier with tungsten milling cutters to remove bulk material
- Ride on scraper with self scoring spring steel blade
- Shotblast to CSP₃ for proper bonding of overlay material

Applying the Method/Process

Existing 2,500 sq. ft. walkway

- Shotblast to CSP₃ for proper bonding of overlay material

Applying the Method/Process

Existing 2500 sq. ft. of ceramic tile

- Ride on or walk behind scraper with tungsten tipped blade to removal tile
- Grind residual thin-set mortar with 25/30 grit diamonds
- Grind and polish to 400 grit resin apply color, densifier and guard product

Questions?

Frequently Asked Questions

- Why does Blastrac keep Jonn around?
- Why scrape vs. scarify?
- Why can't I just broom sweep the floor and apply my product?



thank you for your time

Blastrac
13201 North Santa Fe Ave.
Oklahoma City, OK 73114

800.256.3440

blastrac.com

Diamatic
5221 Gaines Street
San Diego, CA 92110

866.295.5512

diamaticusa.com

