

Jonn Rippman National Sales Manager /Training Director







The world leader in design and manufacturing of portable shotblast systems.



Blastrac Global Organization includes:

Blastrac BV – Netherlands Blastrac NA – Oklahoma City Blastrac Canada – Toronto Blastrac Asia – Shanghi Diamatic USA – San Diego Blastrac products are sold and and supported in 186 countries





Blastrac's Inception

•Blastrac originated from The Wheelabrator Corporation.

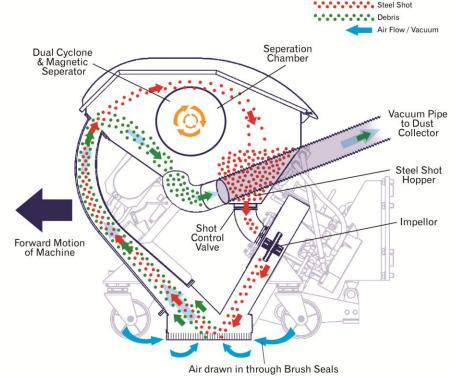
- •The Wheelabrator Corporation is a manufacture of large stationary blast equipment and has been in business for over 100 years based out of Lagrange, Ga.
- •In the 50's Wheelabrator built many large blast rooms for the government and military contractors.
- In the early 1970's the US Navy approached Wheelabrator to design and build a portable machine for the removal of non-skid coatings from ship decks.
- In 1972 Blastrac was born !!





How It Works

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, there it is cleaned and returned to the blast wheel for reuse.



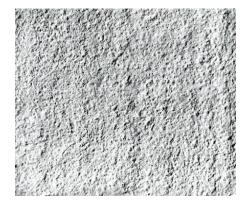




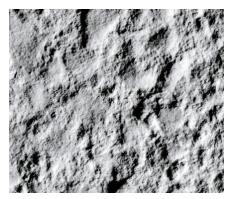
Why Use Shotblasting?

The use of shotblasting technology on concrete and asphalt can increase the surface area up to 300 %.

- Profile concrete surfaces to provide better penetration of chemical surface treatments.
- Remove rubber build up from airport runways, while restoring the surface textures to within FAA standards.
- Prepare bridge deck surfaces for epoxy, MMA and polymer overlay materials.
- Improve Micro and Macro textures on asphalt and concrete surfaces.
- Shotblasting will yield surface profiles ranging from ICRI CSP3 thru CSP8.











What is new and exciting?

Blastrac is one of the founding members of Pavement Synergies.

Pavement Synergies is a partnership comprised of multiple corporations with vast experience in providing products and solutions to the Road, Bridge, and Airport industries.

- Dow Corning
- Convergent Technologies
- Premier Chemical
- •FMC Chemical
- Blastrac
- And growing







I-80 / Donner's Pass Project

Within the Pavement Synergies partnership there have been two test projects completed, as well as other third party evaluations. Each intent is to test the performance of a surface treatment, which is spray applied to a shot blasted surface.

Transil product of Convergent Technologies

- This product is a Lithium Silicate Anti-Scaling surface treatment which reacts with the calcium hydroxide produced during hydration. This chemical reaction creates a surfaces that is denser and much harder than plain concrete.
- The main application for this product would be in areas where extreme roadway rutting is a concern due to: studded tires, snow chains, or degradation caused by snow plow operations.
- It has been shown, that when applying Transil over a shot blasted surface, this will increase the penetration of the product while restoring the Micro and Macro Textures of the concrete pavement.





Results of Caltrans Donner Pass Study on the Effectiveness of Lithium Silicate Densifier on 25 Enhancing Resistance to Abrasion Loss .

26 Core ID Treatme	eatment Wear (inches)		Wear (inches)		Wear (mm)
C1 No Shotblasting-No Densifier (Control)			0.1875	3/16	0.7382
C3	Control	0.2500	1/4	0.9843	
C4	Control	0.2500	1/4	0.9843	
C6	Control	0.2500	1/4	0.9843	
C10	Control	0.1250	1/8	0.4921	
C12	Control	0.1875	3/16	0.7382	
Control Section Average Wear		0.2083	3/16+	0.8202	
<u>No Shotblasting-No Densifier (Control)</u>					
D1	DOS	0.0625	1/16	0.2461	
D3	DOS	0.1250	1/8	0.4921	
D5	DOS	0.0625	1/16	0.2461	
D6	DOS	0.0625	1/16	0.2461	
D7	DOS	0.0000	0	0.0000	
D8	DOS	0.0625	1/16	0.2461	
DOS Average Wear		0.0625	1/16	0.2461	
Densifier Over Shotblasting (DOS)					

Source:

Preservation of Concrete Pavement Using a Modified Silicon Reactive Lithium Surface Densifier Over Shotblasting: A Life Cycle Cost Analysis, Douglas D. Gransberg, PhD, PE*



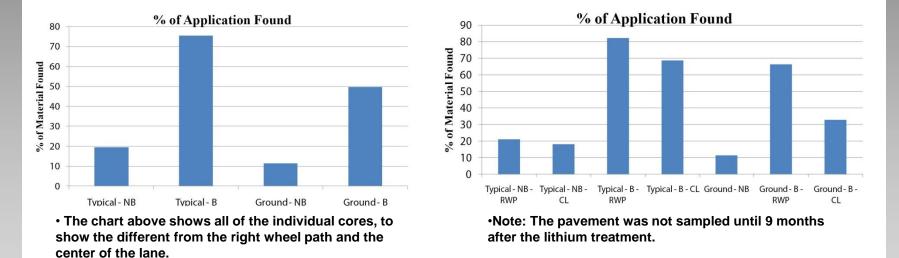


Route 113 Treatment Site-Delaware

The intent with this limited study was to determine the amount of Lithium ion penetration into a concrete roadway surface.

On March 26th 2010 there were 7 cores representing 4 different surface profiles.

Two were from a 'typical surface'...Two from a 'typical but blasted'... Two from a 'blasted diamond ground'...One from 'diamond ground only'.







Shotblasting Equipment / 2-4800DHMKIV







Shotblasting Equipment / 2-4800DHMKIV







Shotblasting Equipment / 2-45DTM







Shotblasting Equipment / 2-45DTM







Thank you for your time! Questions?

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