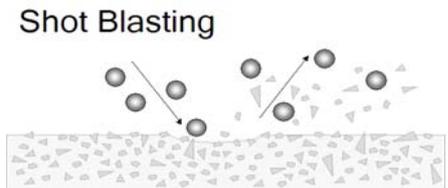


Concrete Floors – Shot Blasting

1.3.4

What is Shot Blasting?

Shot Blasting is a one-step preparation technique that removes laitance¹, paint, old coatings, dirt and other contaminants and profiles the concrete surface all at once. It will not remove oil-ingress and water. Most common shot blasters have full vacuum extraction that will significantly reduce the level of dust produced by the blasting process.



Tiny steel shot is directed at high velocity to the concrete surface. This breaks up and removes the top layer, including loosely bound laitance. The shot bounces back into the system and is recycled while the dust is removed by vacuum.

The use of fine shot will produce a concrete profile suitable for nearly all coating types.

It is recommended that experienced contractors be engaged to shot blast your floor. Shot blasters can also be hired from specialist equipment suppliers. Visit www.concretecare.com.au for more information.

Floor Preparation Procedure Using Shot Blasting

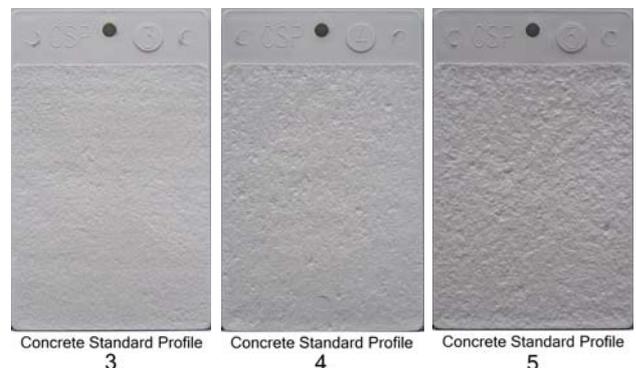
All surfaces must be free from oil, grease, dirt or any other existing contaminants.

1. Remove any oily deposits using high-pressure water wash at 2,000 - 3,000 p.s.i. using a free-rinsing alkaline detergent such as Gibson F310B at 1:150 contact dilution (or Gamlen CA No. 1) -mix and use the products to the Manufacturers written instructions.
2. Create a **surface profile** by using **propriety shot blast equipment** on all surfaces to remove laitance and create a sound, profiled substrate to match visual standard **CSP 3-5**.
3. Fill cracks, blowholes or other defects in the concrete with a suitable epoxy filling mortar.

All surfaces must be clean and dry before application of the specified floor coating system.

After the coating system has fully cured, seal joints with a high-performance, non-lumping polyurethane floor joint sealant. For more information, please refer to **Dulux Protective Coatings Tech Note 1.3.5 Concrete Floors – Treatment of Floor Joints**.

Profile achieved: CSP 3-5



For more information, please contact the Dulux Protective Coatings Technical Consultant in your state.

¹ **Laitance** is the weak, milky layer of cement dust, lime and sand fines that rise to the surface with over-wet concrete, poor curing or over-trowelling. **Why Remove Laitance?** The life of a coating is dependant on adhesion to **sound** concrete. If a coating is applied to laitance, impact from trolleys, forklifts, etc. will cause the laitance layer to delaminate, along with the coating. By removing the top layer, coatings can firmly adhere to sound concrete giving far longer service life.