



**Achieved:** Extend life of ageing car park decks

**Client:** Roselands Shopping Centre

**Place:** Roselands, NSW

**Specifier:** Dynamic Flooring Australia

**Material:** Deckshield ID and Deckshield HD



## How to give one of the world's earliest mall car park decks a new lease on life

**PROBLEM:** Four decades of heavy wear of the 13,250 m<sup>2</sup> Red Level car park deck. Concrete cover insufficient to guard against corrosion. Deck flexure cracking allowed water carried in on tyres to get to the reo. Resulting "concrete cancer craters" jolted shopping trolleys, was uncleanable and tracked grime into the Centre.

**SOLUTION:** Clean the surface. Repair damage. Apply protective coating system.

**CONSTRAINTS:** Minimise disruption to shoppers' 1000 car movements a day. Water run-off from cleaning the heavily soiled surface not to go into the stormwater system. The protective coating system had to prove itself "Site Approved".

**MATERIALS:** Polyurethane mortar, flexible to tolerate flexure of the deck without cracking. Deckshield ID system. Ramps Deckshield HD with 1 mm silicone carbide for high tyre traction.

**METHOD:** Over a two year program:

- Lay 150 m<sup>2</sup> sample; contract based on 12 months site tests showing no damage, wear, cracking or delamination.
- Use high pressure water to remove the surface contaminants adopting a "clean and capture" method.
- Diamond grind to remove the poor finish and shot blast.
- Cut out damage and the rusty reo.
- Apply the three-layer Deckshield ID system to the deck and Deckshield HD system with silicone carbide grit on the ramps.
- Line-mark including a one-way outer loop connected crosswise with two-way lanes to improve traffic flow.

**RESULT:** Now Red Level is easy to clean. No dirt tracked into the Centre. No more jolted trolleys. Higher reflectivity boosts the light level. 10 year warranty.

**MORAL:** If, like Centro Properties, you want to add decades more life to valuable assets, rely on the life-extension strategies of DFA.



*Ramps (top) had silicone carbide grit embedded in a heavy-duty Deckshield system for traction.*

*Tests (bottom) were done by Dynamic Flooring Australia to ensure adhesion.*

## "Your business travels on its floors"