

## Floor coating

### CAR PARK FLOORING

#### TECHNICAL PROBLEMS

There are a variety of different problems facing car park floors:

- wear on the concrete, caused by vehicle traffic
- the need for a non-slip finish (ramps, turns, etc.)
- the need for an effective water seal: car parks are generally indoor, with problems caused by water penetrating from the outside.

#### TRADITIONAL SOLUTION

**Paint** does not provide sufficient protection against the mechanical wear inflicted on the floor. In general, it is useful as a dust barrier, but it needs to be restored on a regular basis.

**Epoxy resin mortar** is a good solution to the question of wear, but cannot provide a sufficiently non-slip finish. Neither does it provide a good enough water seal.

#### SOUPLETHANE TECHNIQUE

SOUPLETHANE is a coating which offers perfect, joint-free adhesion to concrete. It is extremely resistant to both chemicals and thermal shocks. It can be disinfected and, if necessarily, sterilised using steam. Thanks to its lack of porosity and ease of decontamination, it is the ideal solution in terms of hygiene. What's more, it's very easy to maintain and repair. It will bridge cracks in the concrete, offers excellent resistance to shocks and impacts, and you can choose the thickness of the coating according to the mechanical constraints and potential wear.

It can be applied to upstands as well, guaranteeing a full seal in the corners. It provides a full water seal for the floor and the required acoustic comfort, and offers long-term mechanical resistance against the specific constraints in this environment.

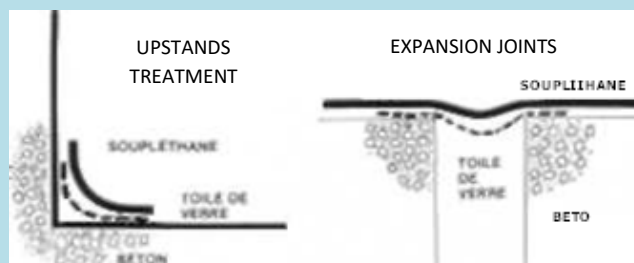
- it provides a perfect seal, even if the concrete starts to crack (up to 2mm). It provides an effective two-way seal, even when counter-pressure is applied from the outside (e.g. from the water table). SOUPLETHANE is certified to resist counter-pressure equivalent to a water depth of 30m.
- it is resistant to any liquids liable to meet the floor, such as: petrol, fuel oil, brake liquid, battery fluid, etc.
- it can be applied in a single, continuous layer over the floor and walls for applications which require a seal on the walls too.
- for underground car parks with an insufficient seal on the roof, you can provide an effective water seal to the car park by directly applying the SOUPLETHANE to the car park ceiling.

This is especially useful when the car park roof isn't accessible (a garden with earth and plants which restrict access to the sealant layer).



#### SPECIFICATION

- **prepare the substrate:**  
Sandblast the concrete – remove any dust.
- **apply SOUPLETHANE:**  
Impregnate the concrete with a hardening base primer for concrete (1 kg/7m<sup>2</sup>).  
Apply a continuous layer of at least 1.5mm thick of SOUPLETHANE.  
- For access ramps, or to protect against studded tyres, the layer can be reinforced (by preparing an epoxy resin mortar, for example) up to 3 or 4mm.  
- you can create a non-slip finish by applying sand to the topcoat and sealing the grains under a layer of resin.
- **application:**  
- with a roller, or using a twin-component airless pump



#### QUALITY CONTROL

- **SUBSTRATE:**  
- check that the concrete has been dry for 28 days (for new concrete) and free of any grease or other contaminants.
- **SOUPLETHANE:**  
- check the adhesion of the coating, that it is of even thickness, and that the film quality is compliant (no holes, pores or blisters, etc.).

#### WORK REFERENCES

- CEBTP: 2 mm crack bridging in concrete
- Chemical resistance : SGN laboratory. Rhône Poulenc (Vitry)