

STADIUMS

TECHNICAL PROBLEMS

Stadiums house several different spaces (changing rooms, toilets, etc.) which need to be properly waterproofed. Due to the way they are built, it can often be difficult to ensure a full seal on these terraces (joints, restored concrete, cracks, etc.).

TRADITIONAL SOLUTION

- Placing a roof over the stadium:

An extremely expensive option for the entire stadium, and normally restricted to the official terraces. The terraces are still exposed to the wind, which can drive rain inwards.

- Partial treatment for the joints and cracks:

- this only provides a temporary solution to the problem; once plugged, these cracks will reappear later.

Traditional sealant solutions are poorly adapted for this task, due to the heavy foot traffic across the surface.

SOUPLETHANE TECHNIQUE

SOUPLETHANE is applied directly onto the concrete in a single, continuous layer, including onto the corridors and vertical parts. It is the perfect solution to the stadium's specific constraints:

- high resistance to UV light and bad weather,
- mechanical resistance to heavy foot traffic in the corridors reserved for the athletes: use a thicker layer of SOUPLETHANE for improved resistance to studded boots.

- a non-slip finish, guaranteeing safety in all weather.

It ensures a full water seal for the structure, even if there are cracks of up to 2 mm wide in the concrete.

TESTS AND CERTIFICATIONS

- UV ageing tests: LCPC
- LCPC: 2 mm crack bridging in concrete
- STER 81 qualification.
- Perforation resistance: 600 kg/ cm²



SPECIFICATION

• prepare the substrate:

Scour the concrete: light sandblasting.

• applying SOUPLETHANE

- Impregnate the concrete with a concrete primer (PU WATER-BASED) - 150 g/m²
- Apply the SOUPLETHANE: an average thickness of around 1.5 mm, and 2 mm minimum in areas subject to studded foot traffic.
- Create a non-slip finish by sprinkling fine sand over the second layer.

How to use: manually with a roller, or using a twin-component airless pump

QUALITY CONTROL

- Check the quality of the concrete prior to application: dry, with no major holes or excessive porosity.
- Check SOUPLETHANE: a continuous coating, well polymerised. Check the minimum thickness required: no holes, porosity or blisters.
- Check the special zones: correct application onto corners or joint bridges.

WORK REFERENCES

- ARRAS stadium
- Plaisir stadium
- Pontault Combault stadium