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Waterproofing

POOLS AND PONDS

TECHNICAL PROBLEMS

Concrete swimming pools are often affected by seal problems caused by cracks in the concrete. This can lead to chemically aggressive water leaking out of the pool and attacking the reinforcement in the concrete.

They may also be affected by counter-pressure, caused by the water table exerting force from the outside.

TRADITIONAL SOLUTION

When installing the structure of the pool, a layer of sealant (PVC or multi-layer) can be installed, followed by the pool concrete and tiling to finish. This is a complicated solution: it's difficult to do properly, and any unusual shapes or forms are tricky to seal properly.

Laying tiles on the concrete will not provide an effective seal if the concrete cracks. In this case, a full restoration is necessary.

SOUPLETHANE TECHNIQUE

SOUPLETHANE is applied directly to the concrete at a thickness of approximately 1.5 mm, allowing it to bridge cracks in the concrete up to 2 mm wide. A thin layer of sand is then projected onto the top layer, allowing tiling to be laid on top of it with standard high-bond mortar.

THE TECHNICAL BENEFITS:

SOUPLETHANE provides a perfect seal under the tiles and will withstand the chemicals in the water. It will also maintain a full seal under counter-pressure applied from the outside (up to 10 bars of counter-pressure).

TESTS AND CERTIFICATIONS

- Crack tests : Bridges and Roads Laboratory
- Counter-pressure resistance : CEBTP (resistance under 10 bars, or the equivalent of 30m of water)
- High-bond mortar + tile adhesion test : Cegecol Chemical resistance: SGN Laboratory, SAGEP (bleach)



SPECIFICATION



• prepare the substrate: Sand and degas the concrete

apply SOUPLETHANE

-Concrete primer (1 I/7 m²) -Apply several layers of SOUPLETHANE for a final thickness of 1.5 mm -Apply fine sand to the top layer. -Lay tiles using high-bond mortar

Application: Manually with a roller, or using a twincomponent airless pump



QUALITY CONTROL

Check the condition of the support Check the adhesion of the support

Check that the film is in a continuous layer (no holes, pores, etc.)

Make a visual check of the film quality (no blisters, etc.), good polymerisation

Check that any weak points have been properly treated.

WORK REFERENCES

Peshenard Swimming Pool / Bourbonne les Bains Spa / Perros Guirec Spa