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Floor coating

BACK PRESSURE LINING

TECHNICAL PROBLEMS

Buried structures (cellars, basements, car parks, tunnels, concrete tanks...) are frequently subject to waterproofing problems due to infiltration (water table or other).

TRADITIONAL SOLUTION

Treatment of cracks : by plugging, bridging or injection with a resin

Disadvantage: other cracks form elsewhere with time.

Waterproofing structures: with a cement rendering charged with resin.

Disadvantage: this technique can make a structure waterproofed, but does not guarantee waterproofing when the substrate cracks.

Poor resistance with risk of separation under high pressure.

SOUPLETHANE TECHNIQUE

SOUPLETHANE applied to a concrete substrate guarantees waterproofing even if the substrate develops wide cracks (up to 2 mm) and resists a water back pressure of more than 10 kg/cm².

It is also very strong mechanically and can be applied to an accessible floor (corridor, cellar, car park...) without the need for mechanical protection.

TEST REFERENCES

- STER 81 qualification for bridges and tunnels (Ponts et Chaussées)
- CEBTP: (Building and Public Works Experimental Research and Design Center) resistance to back pressure of 10 Bars
- Bridging of 2 mm wide concrete cracks



SPECIFICATION

• prepare the substrate:

Dry the substrate (with hot air, injection if necessary) before application.

- if the substrate remains damp nevertheless, use a primer for damp substrates
- sand blast the concrete
- if the substrate is basic (pH>9)
- leach the concrete with a diluted acid solution
- apply an impregnation concrete primer
- this operation is important since it provides better substrate resistance and plugs porosity that may allow water to percolate.

• apply SOUPLETHANE:

A 1.5 mm thick coat, solution that provides good waterproofing resistance even if the concrete develops cracks (up to 2 mm wide).

- application with the machine in one continuous coat, or in 3 coats with the roller.

WORK REFERENCES

- COGEMA La Hague
- CEA / Saclay
- SOMANU