

Floor coating

HOSPITAL FLOORS

TECHNICAL PROBLEMS

Hospital floors are subject to various constraints:

- **mechanical:** trolley traffic, pedestrians with high punching forces (high heels, etc.),
- **chemical:** cleaning with aggressive and disinfecting products, industrial detergents.
- **hygiene:** it must not be a source of contamination and must not absorb micro-organisms.

TRADITIONAL SOLUTION

TILING: problems with cleaning, joint contamination, noise.

PAINT: poor mechanical resistance and poor resistance to wear. Difficult to maintain. Frequently solvent-based.

EPOXY: good resistance to wear, scratches and chemicals (except bases), but poor mechanical resistance to shocks and concrete cracking, which may lead to rapid deterioration in the floor coating.

Difficult to repair, requires a full restoration.

EPOXY MORTAR: good mechanical resistance to shocks and wear. The surface does not however have the required qualities in terms of hygiene and decontamination. Impossible to treat any raised sections.

PLASTIC MEMBRANES: problems with the joints and adhesion over time, creating blisters or ruptures in the coating.

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 therefore 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. If the concrete begins to crack, the coating will bridge it. It 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 easily be applied on upstands too, guaranteeing a full seal in the corners. It will provide an effective seal for the floor, and good acoustic comfort too.

TESTS AND CERTIFICATIONS

Resistance to shocks and impacts: ELF test

- Wear resistance: 1 mm of SOUPLETHANE = 1 cm of concrete
- Compression resistance: 113 MPa
- Waterproofing: Bridges and Roads Laboratory: a 1.5mm layer will bridge a 2mm wide crack.



SPECIFICATION

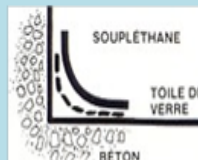
- Sanding the concrete
- apply the base hardener concrete primer (1 litre per 7m²)

- Apply the SOUPLETHANE:
- | | |
|------------------------|------------|
| corridor floors: | 2 mm. |
| room floors: | 1.5 mm. |
| gallery floors: | 1.5 mm. |
| technical room floors: | 1.5 mm. |
| kitchen floors: | 4 mm thick |

Application:

with a roller, or using a twin-component airless pump

TREATMENT



EXPANSION JOINTS



WORK REFERENCES

- CRTS Lille
- Amiens Hospital
- Henri Mondor Hospital
- Bd Kellermann Disability Centre