

Waterproofing

BALCONIES - LOGGIAS

TECHNICAL PROBLEMS

A poor water seal on a balcony can lead to a range of serious problems:

- Water can penetrate the apartment,
- The concrete reinforcements and balustrade seals can become corroded, causing the balcony to deteriorate and collapse.

TRADITIONAL SOLUTION

NEW BUILDINGS

- Install a waterproof layer of lead screeding: a reliable and long-lasting technique, but difficult to install (in particular, the raised sections and seals around the balustrade base). Very expensive. It prevents you from adding decorative finishes to the floor (tiling, etc.) You can't add a non-slip finish to the floor, either.

RENOVATIONS

- Lead screeding can be laid, but it is very expensive. Traditional sealant solutions are almost impossible to implement, due to the extra thickness, which would prevent French windows from opening. You can't solve the seal problem just by laying tiles, either.

SOUPLETHANE TECHNIQUE

FOR NEW BUILDINGS AND RENOVATIONS:

- **SOUPLETHANE** is applied directly to the concrete and provides a continuous seal over the raised sections, balustrade base seals and balcony overhangs. When applied at a thickness of 1.5mm, it can be used to seal cracks in concrete up to 2mm wide. You can make the **SOUPLETHANE** non-slip by sprinkling the last layer with fine silica.
- It can also be tiled. Spray a layer of aggregate onto the top coat of **SOUPLETHANE**, onto which you can then set the tiles using traditional mortar. This sealant technique will have no effect on the final thickness, so it won't require any further modification work (door thresholds, window, etc.)

THE BENEFITS:

SOUPLETHANE is a waterproofing solution for balconies, but can also be used to provide accessibility without the need for mechanical protection (pedestrian walkways, installing window boxes, etc.).

You can add a decorative painted or tiled finish. If you are restoring existing tiling, you can apply **SOUPLETHANE** directly to the tiles without having to remove them first. **SOUPLETHANE** is resistant to perforation at pressures of 113MPa; it is highly UV resistant and comes with a ten-year seal guarantee.

You can simply and effectively treat every part of your balcony: overhang, balustrade seals, raised flashing sections, joints, etc. What's more, it's easy to clean and repair if it gets damaged.



SPECIFICATION

- prepare the substrate:

- If necessary, remove the existing surfacing.
- Sand the concrete and remove all dust, sand any steel

- apply SOUPLETHANE

- A hardening base primer for concrete 1 l/7m²
- Apply two or three layers of **SOUPLETHANE** for a final thickness of 1.5mm and apply a non-slip finish by spraying on corundum or silica. If using silica, we recommend coating the grains with a thin film of **SOUPLETHANE** for a better grip.
- Bridge any expansion joints with a PVC membrane
- **Application:** By hand, with a paint roller.

- Tests and checks:

Support preparation: ensure that the support is dry. If not, dry the surface with a propane torch. Check that any exposed metal at the joints is not corroded. If it is, passivate the steel beforehand before applying the **SOUPLETHANE**.

- Apply the **SOUPLETHANE**: ensure that there is an even layer across all the supports, with no visible defects (blisters, holes, etc.), that any film has properly polymerised and adhered, and that any raised or special points have been properly treated.

TESTS AND CERTIFICATIONS

- STER 81 du L.C.P.C. certification
- Compression resistance: 113 MPa
- Bridging cracks: P and Ch > 2 mm
- Concrete adherence > 30 Bars
- Steel, alu adhesion : >50 Bars.
- Weather and UV resistance: test SNCF.

WORK REFERENCES

- GAN
- UAP
- Daufresnes Cabinet
- Toussaint Cabinet
- Arch. Soquet
- Winterthur Insurance.