



# ELAPROOF™

## AN EASY BALCONY RENOVATION

**Comfortable and reasonably priced  
balcony renovations have arrived!**

In the eyes of residents, damage to balcony floors tends to show as worn paint and varying degrees of cracking and chipping. The deterioration of concrete structures and rusting of structural steel cause a risk of accidents, as well as cosmetic problems. Damage to balcony floors can weaken structures: in the worst case scenario, a balcony may have to be entirely rebuilt.

The problem with many repair methods is their multiple work phases. Depending on the size of the housing company, a balcony renovation can take several months. Balcony renovations often include sandblasting, for which the entire building has to be 'shrouded' in a building wrap. This is an expensive process, which makes life much less comfortable and enjoyable for residents.

The patented ElaProof repair method makes the refurbishment of balcony floors pleasant, even for residents, who can continue to live in comfort during the renovation. In addition, the surroundings are not spoiled by heavy, dusty and noisy work phases.

**The ElaProof repair method involves a simple set of phases:**

- Measurement of balcony on site
- A new pre-cut covering is prepared at the contractor's production facility
- Preparation of balcony floor: cleaning and grinding, plus pressure cleaning and drying
- Installation of the ElaProof balcony covering on site

Thanks to the patented Elaproof repair method, balconies are only closed to residents for a couple of days. The Elaproof repair method provides balconies with a wear-proof surface that lasts for decades, is easy to clean and feels pleasant, even under bare feet. The repaired balcony can also be covered with a tiled floor, for example.

[www.elaproof.com](http://www.elaproof.com)



# An easy ElaProof balcony renovation

## ADVANTAGES OF THE ELAPROOF METHOD

- The solution is extremely long-term
- The corrosion of steel structures and degradation of concrete are either stopped or considerably slowed down
- A new, durable surface material is installed on the balcony
- Can also be installed on damp surfaces
- Non-floor surfaces remain breathable, i.e. any condensation that forms inside them can evaporate

## BALCONY RENOVATION IN BRIEF

- Assessment of balcony's condition: floor, railings, walls and ceiling, i.e. which parts are worth repairing.
- After repair, the covered walls, roof and any concrete railings can be painted, plastered or tiled.
- A durable, level and clean floor surface is created using the ElaProof multilayer solution, based on a patented polypropylene film.
- Depending on the conditions, after repairing the balcony floor you must wait 12 to 24 months before coating the ceiling of the balcony underneath, to allow any water from the covering to exit through the concrete.

## BALCONY FLOOR BEFORE RENOVATION



## TREATMENT WITH ELAPROOF BEFORE INSTALLATION OF COVERING



AFTER A PLEASANT BALCONY RENOVATION, BALCONY LIFE WILL SEEM IRRESISTIBLE!



# Examples of coating structures:

**FIGURE 1: BALCONY FLOOR STRUCTURE**



Figure 1 shows a cross-section of a balcony floor structure. The covering (A) has been fixed to the concrete floor (C) with ElaProof (B). In this example, the covering is a flexible plastic sheet.

**FIGURE 2: BALCONY FLOOR COVERING**



Figure 2 presents a balcony floor covering (A), cut to size in the factory, from above. The broken line represents the layer of reinforcing material (D) installed under the covering. The edging (E), which is folded upwards against the wall from the concrete surface, is also shown.

In the diagram, the covering (A), which includes a reinforcing layer (D), is prefabricated prior to installation. It is made of a flexible and weather-resistant material, for example a polyolefin plastic mat with an anti-slip pattern.

**FIGURE 3: FINISHED COVERING**



Figure 3 shows a cross-section of a prefabricated covering layer installed in accordance with Figure 2.

- A = Polypropylene
- B = ElaProof
- F = Reinforcing layer
- G = Scrim, used to reinforce the structure

**FIGURE 4: FLEXIBLE EDGE STRUCTURE**

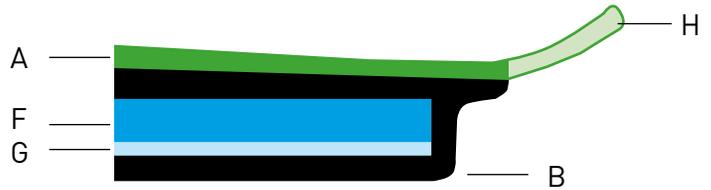


Figure 4 presents a cross-section of the edge of the covering shown in figures 2 and 4. The flexible plastic covering (H) extends beyond the reinforcing layer (F). The flexible edge section (H) can be lifted against the wall, or bent to fit the sloping surface at the edge of the concrete floor.

**FIGURE 5: EDGE STRUCTURE AT THE FRONT**



Figure 5 presents a cross-sectional example of a possible covering solution at the front edge of a balcony.

- A = Polypropylene
- B = ElaProof
- C = Concrete
- F = Reinforcing layer
- H = Metal facade strip

**FIGURE 6: EDGE STRUCTURE AGAINST THE WALL**



Figure 6 presents a cross-sectional example of a possible covering solution against the wall of the balcony.

- A = Polypropylene
- B = ElaProof
- C = Concrete
- F = Reinforcing layer



# An easy ElaProof balcony renovation

## WORK STAGES

1. The balconies are measured. Even if balconies appear to look identical, they should be measured at random intervals to ascertain the actual size differences. During measurement, account is taken of an 50–100 mm extra edge section which, in mosts cases, is folded upwards and fixed against the wall.
2. Floor covering sections made of polypropylene film, ElaProof coating and glass fabric, with overlapping edges for fitting against walls, are pre-cut and prefabricated in the factory.
3. If the balcony is large and the entire floor cannot be protected with a single prefabricated section, the covering is made from two or more pieces, after which the seams are joined by plastic welding.
4. The balcony floor is ground on-site and the drainage slopes are checked. Any concrete that has crumbled or is breaking off the balcony railing is removed. Dust is removed from all surfaces. Any facade strips or other sections that will be under the coating are fixed into place.
5. A coating of ElaProof is added to the balcony floor and the prefabricated sheet is lowered on top of the coating. The protruding edges of the sheet are bent upwards against the walls for water protection.
6. The other areas to be renovated are coated with ElaProof. The same coating is suitable for both metals and concrete. Any degraded sections of the concrete railings are repaired once all intact material has been coated with ElaProof. Any repairs and finishing are done on top of this.
7. Elastic, breathable acrylic paints can be applied on top of ElaProof coatings. A surface sealed with ElaProof can also be tiled or plastered over, for example.

## BALCONY BEFORE RENOVATION



## BALCONY AFTER COATING



**ELAPROOF**<sup>TM</sup>

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