

## Rho (Milan, Italy)

# CORTE VISCONTI

COMPLETE WATERPROOFING TREATMENT, FROM FOUNDATIONS TO ROOFTOP, FOR A BUILDING IN THE OLD TOWN CENTRE



**PHOTO 1.** MAPEPROOF LW sheets were used for waterproofing the foundations.

**PHOTO 2.** MAPESIL LM was used to seal the joints of the stones on the thresholds leading to the terraces and balconies.

A blend of town life, nature and history. Corte Visconti was built for those wishing to live in an urban dimension within the intimacy of a small-town offering services you would normally find in a large metropolis. The new apartments in the old part of Rho, in the outskirts of Milan, have been built by adopting cutting-edge energy savings technology. The new residential complex has been built within the grounds of the park behind historic Villa Visconti Banfi. The new building has three floors and has been designed to follow the main body of the Villa. On the north side the apartments overlook the park, with sitting rooms which open up through large windows onto spacious terraces, while on the south side they overlook a traditional courtyard in the old part of Rho.

#### WATERPROOFING EVERY TYPE OF SURFACE

Mapei's extensive experience, along with its comprehensive range of products, played an important role in bringing such a technologically-advanced residential construction together.

The initial phase of the work included the installation of MAPEPROOF LW for waterproofing the foundations. These bentonite sheets for structures below ground level were also folded up against the diaphragm walls of the foundations. As for the waterproofing work on the terraces and balconies, the system adopted consisted of a double coat of MAPELASTIC TURBO flexible mortar with MAPENET 150 reinforcing mesh, as well as MAPEBAND tape to seal the expansion joints and corners and the DRAIN FRONT TPE angular pipe union which was installed in the parapet to help rain-water flow away. The wood of the roof was waterproofed with self-adhesive



membranes made with distilled bitumen polymer of the ADESO line produced by Polyglass, a Mapei subsidiary.

The floor slab on the ground floor under the hanging garden was waterproofed with PURTOP 1000, two-component, solvent-free pure polyurea membrane, after treating the surfaces with PRIMER SN two-component, fillerized, epoxy primer and TRIBLOCK P three-component, epoxy-cementitious primer, which were both used to ensure the polyurea membrane would adhere perfectly.

The screeds throughout the building were made from TOPCEM PRONTO ready-to-use, normal setting, quick-drying mortar with high thermal conductivity, while KERAFLEX MAXI S1 high performance, deformable, cementitious white adhesive was used to bond the ceramic tiles inside and outside each of the apartments and on the balconies. MAPESIL LM sealant was used to seal the stones used for the thresholds leading to the terraces and balconies, while MAPESIL AC mould-resistant, acetic, silicone sealant was used to seal all the features in the bathrooms of the apartments. Lastly, MAPEFIX chemical anchors were used to fix the railings in place.

**ABOVE.** Ceramic tiles were bonded with KERAFLEX MAXI S1 adhesive.

#### IN THE SPOTLIGHT MAPEPROOF LW

Bentonite waterproofing sheets for structures below ground level, suitable for both horizontal and vertical surfaces. It is ideal for waterproofing horizontal and vertical concrete structures in environments below ground level, below slabs, on retaining walls, against diaphragms and soldier-pile walls. It can be used to waterproof concrete structures below ground level with a water table less than 5 m.



#### TECHNICAL DATA

**Corte Visconti**, Rho (Milan, Italy)

**Period of the intervention:** 2012 - 2017

**Period of the Mapei intervention:** 2012 - 2017

**Intervention by Mapei:** supplying products for waterproofing foundations and balconies and installing ceramic tiles

**Client:** Immobiliare Visconti Srl

**Design:** Laura Ferrario

**Works director:** Laura Ferrario

**Site director:** Claudio Colombo

**Safety coordinator:** Renato Veronesi

**Main contractor:** Zion Srl

**Installation company:** Baessato Srl

**Mapei coordinator:** Fabio Messina, Mapei SpA (Italy)

#### MAPEI PRODUCTS

Building screeds: Topcem Pronto

Waterproofing and preparing

the substrates: Mapeproof

LW, Mapenet 150, Mapeband, Mapelastic Turbo, Drain Front, Purtop 1000, Primer SN, Triblock P

Installing ceramic tiles: Keraflex

Maxi S1

Sealing joints: Mapesil LM,

Mapesil AC

Anchoring: Mapefix anchors

#### POLYGLASS PRODUCTS

Adeso membranes

For further information on products see [www.mapei.com](http://www.mapei.com) and [www.polyglass.com](http://www.polyglass.com)