

## Concrete substrate rehabilitation

### Don't change, Rehabilitate

The concrete post is a structure that ages naturally under the effect of numerous climatic aggressions (frost, wind) and variable mechanical stresses.

Contrôle & Maintenance currently repairs many supports per year.

### Concrete degradation

The origin of concrete degradation is, in all cases, a combination of several phenomena:

- The (micro) crack due to various origins
- The constraint due to the combination of frost and humidity
- Internal reactions (between constituents),
- Reinforcement corrosion (swelling)
- Reinforcement corrosion (chlorides)
- Concrete aging (carbonation)

The degradation of old substrates is a daily problem for agencies:

- Risk for third parties after shard fall,
- Mechanical behavior of partially damaged structure,
- Maintaining the level of heritage reliability,
- Impact on customer satisfaction and corporate image,
- Difficulties on the ground: access, replacement administrative procedure,

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## Expertise and rehabilitation of concretes substrates.

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The first step is the evaluation of the residual mechanical resistance of the substrates. After an assessment in which the origins of the damage have been identified, the standards and period documents considered, the level of degradation studied, diagnosis and repair solutions can be considered and costed.



The repair methods will consist in giving the substrate its initial visual appearance by homogenizing the mechanical strength, using recognized and guaranteed techniques to extend its life. This restoration technique is applicable indefinitely.

## Maintenance of concretes substrates

Maintaining the durability of concrete substrates is a service that has been in place for more than 10 years now, the use of plastic artifice has also shown its resistance limit compared to UV.

