

Testing and Certification of Products that Protect and Repair Concrete

Certify your products to sell them in the European market



Protection and reparation products for concrete are used to recover or enhance the qualities of the material. They are general used with reinforced concrete, in order to prolong its life span. Depending on their composition, these products are divided into:

- Hydraulic binders (H)
- Polymeric reactive binders (P)
- Pastes, mortars and hydraulic concretes (CC)
- Polymerized hydraulic cement pastes, mortars and concretes (PCC)
- Pastes, mortars and polymeric concretes (PC)

EUROPEAN REGULATIONS

Testing standard EN 1504 (Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity) **regulates the CE marking process** for these types of products and classifies them according to their intended use.

They can be certified with:

- EN 15042: Surface protection systems for concrete
- EN 15043: Structural and non-structural repair
- EN 15044: Structural bonding
- EN 15045: Concrete injection

- EN 15046: Anchoring of reinforcing steel bar
- EN 15047: Reinforcement corrosion protection

European regulations stipulate that a Notified Body conducts the required testing of these products in order to obtain the CE marking certification. These are tests to identify the components of the raw material and evaluate the properties of any related products according to the characteristics to be declared in the CE marking.

Applus+ offers a complete service for the testing and certification of products for the protection and repair of concrete

OUR METHODOLOGY

Our experts study each project to identify the optimal route to certification of repair and protection products. This investigation helps to identify which products are most appropriate as testing samples, in order to achieve the maximum number of certified models with the lowest number of tests.

- Initial study of the project and selection of the samples Ensayos en laboratorio y clasificación del producto
- Accredited laboratory testing and product classifications
- Initial and annual inspection (CE 2+) of the factory production control (FPC)
- Issuance of certificate of conformity

Benefits of Applus+

- All testing and certification managed by a highly-specialised team of experts.
- A quick and efficient service in a laboratory with a rich history in mortars, adhesives and cements
- Single point of contact for the audit of the factory production control

OUR FACILITIES

We have our own laboratories with highly specialized and versatile equipment. This allows us to carry out all the tests required for your product. Available tests:

- Reaction to fire testing, adherences, thermal aspects compatibility, penetration depth, resistance to the frost-defrost cycles against defrosting salt, artificial ageing with UV light, vapour transmission, elasticity module, retraction, carbonation resistance, injectability, viscosity, ripping resistance, amongst others.
- Testing and certification of similar products, like industrial mortars (EN 998- 1/2), self-levelling