

SPECIFICATIONS

STRUCTURE REHABILITATION WITH SSR AQUATAPOXY COATING

PORTÉE

These specifications apply to the application, components, and methods of using of AquataPoxy SSR epoxy coating for structure rehabilitation.

APPLICATIONS

The AquataPoxy SSR epoxy coating is recommended for the improvement of the structural integrity of structures, and/or to prolong their life against exposure to various acidic and caustic agents, as well as abrasion and corrosion. This epoxy is used for the rehabilitation of existing structures, such as underground pipes (concrete, steel, cast iron, bricks, PVC and HDPE of more than 750 mm (30 in) in diameter), manholes and catch basins made of concrete or bricks, water treatment facilities, steel or concrete structures, various tanks and basins of 189 litres (50 gallons) or more, and pharmaceutical facilities.

METHOD OF USE

Surface preparation

The performance of the coating is directly linked to the level of preparation of the surface, which must be free of all contaminants such as sediment, dust, oils, greases, chemical contaminants, etc.

1. Cleaning the surface

To obtain a uniform surface, the preparation of the substrate can be made with a solvent, jet of high-pressure water at 5 000 psi or Very High Pressure 10 000 psi (depending on the degradation of the existing structure), sand blast or steam, depending on the nature and the level of contamination.

2. Sealing of cracks (when required)

If needed, cracks must be sealed with a method approved by Soleno Service.

3. Application of a cement product for repairing the profile (when required)

When rehabilitating a concrete structure, the unevenness of the profile can be corrected with a cement product approved by Soleno Service

4. Primer layer application

In order to ensure the proper adhesion of AquataPoxy SSR epoxy coating, it is recommended to apply a layer of primer on the surface to rehabilitate. The selection of the primer layer, approved by Soleno Service, will depend on the type of structure to be rehabilitated.

Application of epoxy coating

The epoxy coating can be applied with a brush, roller or by airless spray. The best dosing and mixtures can be obtained by the use of an airless spray multi-components system Graco XP50 type approved by Soleno Service. The product must be applied at stable or declining temperatures. The thickness of the coating applied is validated by the technician with the help of a gauge certified by the manufacturer. If needed, the AquataPoxy SSR-A-6 epoxy coating can be applied in several layers, provided that any additional layer is applied within the recommended application time range indicated on the technical sheets. Recoating interval is reduced at higher temperatures. Before each new layer, the surface should be inspected, cleaned and dried thoroughly. If the interval between two layers is elapsed, the surface must be sanded and cleaned before applying a new layer.

Testing

In order to ensure the proper execution of the work, an electrical conductivity test (spark test) must be performed. This test consists in passing an electric arc on the entire surface of the rehabilitated surface using a metal brush, to detect the possible weaknesses or the lack of consistency of the surface after a drying time of five (5) hours. If needed, the technician will perform the required touch ups and will confirm the good quality and consistency of the coating application.