SPECIFICATIONS

STRUCTURE REHABILITATION WITH SSR EPOXY COATING

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

APPLICATIONS
The 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), manholes and catch basins made of concrete or bricks, wastewater treatment facilities, steel or concrete structures, various tanks and basins, and reinforcing cables.

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 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 SSR 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. 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 (optional)
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.

* For more information on the range of chemicals offered, consult your Soleno Service representative.