Practical examples

Advantages

- high corrosion protection (up to C4 high at 120 µm) when used in one coat
- extremely high spreading capacity thanks to the highest dry matter content
- low emissions due to low VOC content and thus a good alternative to Hydro systems and powder systems
- extremely user-friendly due to highest stability universal grip

Single-layer painting of steel columns 2K-Epoxy-Super High Solid - single-layer colour

EvoTop 193, SD 93-7707/1

Elektrizace železnic Praha a.s. produces steel power poles for the electrification and modernization of train lines. Strict official regulations require significant emission reductions. The use of Hydro-systems, due to production and galvanizing conditions, for cost reasons was out of the question.
These conditions could be met due to the extremely high proportion of solids and the reduction of the required layer thickness while maintaining a long lifetime of the protective action. In addition, the production process is very fast and cost-effective due to the possibility of applying only one layer. A high proportion of iron mica ensures a stable and high quality appearance and "masks" the typical confusion caused by the reagents. Demanding ruggedness requires high drying stability up to 300µm.

Painting process description

Painted objects
Steel columns

Material
Steel SA 2,5

Painting equipment
Manual application, Airless

Painting process
- Pre-treatment: sand blasting SA 2,5
- Blower
- Painting
  - Manual application, Airless
  - 20 min. Flash Off / Vent
- Drying
  - 60 min at 40 ° C, then 24 hours storage in the hall at> 16 ° C before further processing or external storage

Features / Approvals

- 720h salt solution resistance test According to EN ISO 9227: 2006 (NSS) after 1 h and 24 h regeneration degree of rust <Ri1
- 480 h exposure to condensed water according to EN ISO 6270-2: 2005 after 1 h and 24 h regeneration degree of rust <Ri1

Material used

SD 93-7707/1 2K-Epoxy-Super High Solid single layer coating

SH 93-1000 / 2 EP-Special hardener