



Abcite®

Corrosion Protection



Cable grids receive successful treatment for long-term protection against corrosion.

Contractor

Companies in Barcelona, Spain, manufacturing cable supports and electrical fittings.

Project:

The metal cable supports, or grids, in some of the city's industrial complexes, marine installations, underground, and chemical plants, needed to be protected against the prevailing atmospheric conditions and other forms of chemical aggression. The contractors were looking for an appropriate protective coating that would also offer excellent electrical insulation properties, flame resistance and with very low maintenance costs.

Problem:

Metal cable supports, or grids are, indeed, attacked by rust when exposed to corrosive agents, humidity or other ambient atmospheres and this can lead to physical damage and considerably shorten service life, especially that of the rods which are used at the intersections of the different components.

All this leads to extra costs to replace the damaged parts. However, when coated adequately, the cable supports can continue to be used for a long period of time, without the need for additional investment. This can be obtained by a reliable coating, which prevents contact between the metal and the aggressive atmospheres.

Solution:

All the components, from the manufactured parts to the assembly devices and down to the connecting pieces were protected with DuPont Abcite®, a pore-free, UV-resistant barrier coating that protects the steel from erosion and corrosion. Abcite®, is produced in powder form and is applied either by spraying, rotary sintering or fluidized bed dipping processes. The fluidized bed dipping process was used for the grids and the electrostatic spray process for the preheated metal cable supports.

The powder resin conforms to every shape and surface variation and is available in many decorative colors. Abcite®, produces a highly resistant, uniform coating of the treated cable grid components.

Features & Benefits:

- Abcite® resists corrosion caused by aggressive atmospheres and humidity.
- Abcite® serves as a decorative element. The existing colors not only add a pleasant touch to the installation but also help differentiate the various voltage tensions of the cables.
- Abcite® is resistant to abrasion and impact.
- Abcite® is not chemically altered or cured during processing and, therefore, does not become brittle.

Application case history

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DuPont Powder Coatings