

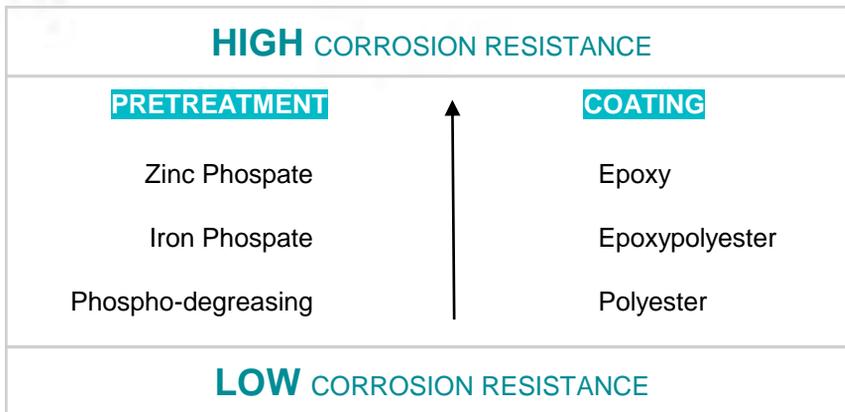
COR-SHIELD POLYESTER POWDER COATINGS.

Protect metal objects from corrosion,
even in the case of inadequate pre-treatment
with the **COR-SHIELD** series.



POLYESTER WITH HIGH CORROSION RESISTANCE

As it is well known, in order to adequately protect a steel item against corrosion, **it is necessary to proceed both with a valid chemical conversion of the surface and with a suitable finishing**. The figure here below schematically illustrates the relationship between most used steel pre-treatments and coating systems versus corrosion resistance.



It is clear, therefore, that a polyester coating cannot provide a high corrosion resistance if the used pretreatment is phospho-degreasing. On the other hand, most coating plants are not equipped with modular treatment systems, that allows to pass quickly from phospho-degreasing to iron or zinc-phosphating treatment.

To solve this issue, **ST Powder Coatings R&D department has developed a new polyester series with improved corrosion resistance, even in case of non-optimal pretreatments:**

COR-SHIELD

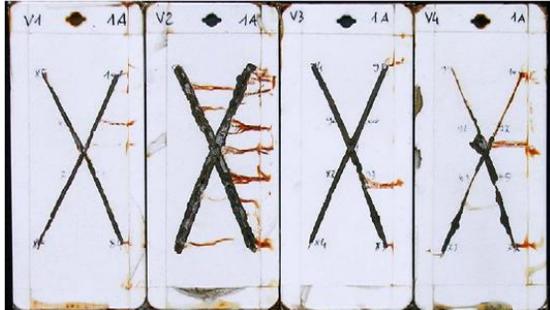
Better corrosion resistance, even in case of inadequate pre-treatment.



COR-SHIELD

210 HOURS OF NEUTRAL SALT SPRAY TEST.

The following picture shows four steel panels without any pre-treatment, coated with:



V1 V2 V3 V4

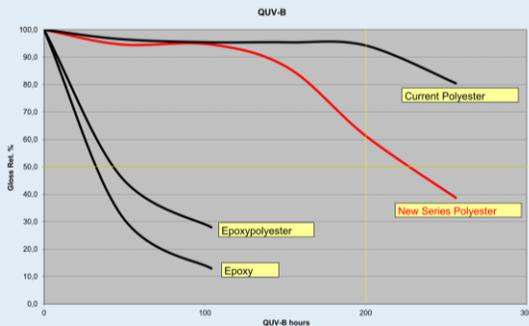
V1) The new **COR-SHIELD** series

V2) A typical polyester system

V3) A epoxy-polyester system

V4) A epoxy system

After **210 hours of neutral salt spray test** (ISO 9227), the film detachment of the new polyester system (V1) was very similar to the film detachment of the epoxy system (V4), and significantly lower than the detachment of the standard polyester system (V2).



In addition to its high corrosion resistance, the new **COR-SHIELD** polyester series still maintains a **good resistance to weathering**.

The image on the left shows the trend in gloss retention after accelerated aging test (QUV-B).

The UV resistance features of the new COR-SHIELD series make it suitable for outdoor industrial applications.

COR-SHIELD POLYESTER POWDER COATINGS ARE AVAILABLE IN THESE VERSIONS:

| FINISHING | BRIGHTNESS | COLOURS |
|---------------------------------------|--------------------------------|-------------|
| Smooth | Half-matt, half-glossy, glossy | Any colour. |
| Fine texture | Matt, half-matt | |
| A metallic version is also available. | | |

CONTACT US.

For any questions relating to powder coatings, our team is at your side to help and advise you.



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P o w d e r C o a t i n g s

M O R E T H A N C O L O U R

