

BECK COAT 1000 & BECK COAT 2000



The prohibition of cadmium and chromate plating has made the selection of coating for special fasteners quite uneasy. Our clients face difficult choices when they try to combine respect for the environment, performance of the anti-corrosion properties and cost.

Having completed a Research & Development project on this subject, Beck Crespel is pleased to propose a new surface treatment based on zinc flakes and within the frame of the ISO 10683 standard.

As soon as it was developed, the product has been qualified for use in nuclear power stations (PMUC qualification).

This coating is now used in various fields such as nuclear, water turbines, offshore, petrochemical, civil works, railways industries and meets the requirements expressed by numerous clients :

- Environment conservation : Beck Coat are free of Chromium VI. The current restrictions on the use of Chromium called for an urgent solution.
- Remarkable performance against corrosion :

Product	Thickness	Salt spray test (red rust)
BECK COAT 1000	8 à 10 μ	1000 h
BECK COAT 2000	20 à 40 μ	2000 h

- Properties quite adapted to special high tensile bolting :
 - No risk of hydrogen embrittlement during the application of Beck Coat
 - Elasticity of the coating compatible with the elongation of the bolting under heavy constraint
 - Regularity of the application including on threads
 - High temperature properties : Beck Coat can be used until 280°C

- This innovative coating is applied with specific dedicated equipments designed for the control of the process, including or large dimension studs.

- When protections based on coating are not sufficient (high exposure to corrosion, high temperature...), we can propose alternative solutions with high tensile or high temperature stainless steels where landmark improvements have also been made.

- Over the years, Beck Crespel has kept implementing a wide range of solutions aiming at increasing the life-time of our products. We for instance orient our R&D on the following subjects :
 - Processes increasing the resistance against fatigue
 - Solutions against seizing and galling
 - Research on raw material especially for alloy, stainless and high temperature steels
 - Optimization of basic processes (hot forging, heat-treatments and thread rolling ...) where we have developed quite innovative solutions.
 - Development of special processes increasing properties, often performed on equipment designed and manufactured in-house
 - Coatings



Complementary information will be given upon request at info@beckcrespel.fr