TECHNICAL SPECIFICATIONS "RAYDENT" COATING

RAYDENT is a special surfacing technology coating that through electroplating creates a metal surface.

Ceramics particles of 1 mm or smaller, using an electrochemical reaction under zero degrees, fall down forming a layer (1 µm thick) similar to an alloy. This is the great features of RAYDENT.

This exceptional coating offers an innovative interpretation of Faraday's law of electrolysis.
Coulomb's law constitutes the theoretical basis of galvanic technology and JIS standards, based on the proportionality of the electric current. On the contrary RAYDENT coating is an unprecedented technology unique in the world, the theory of the infinite dispersion potential.

Cap. Soc. € 10.000 i.v.
Società a Responsabilità Limitata

Sede Legale:
Piazza Sicilia 6, Milano (MI),
20146, Italia
Cod. Fisc./P.iva/VAT code: 12342780967
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Rea cciaa MI -2656003

Sede Operativa:
Via Mario Idiomi 1/14
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CHIARAVALLI®
LINEAR CENTER

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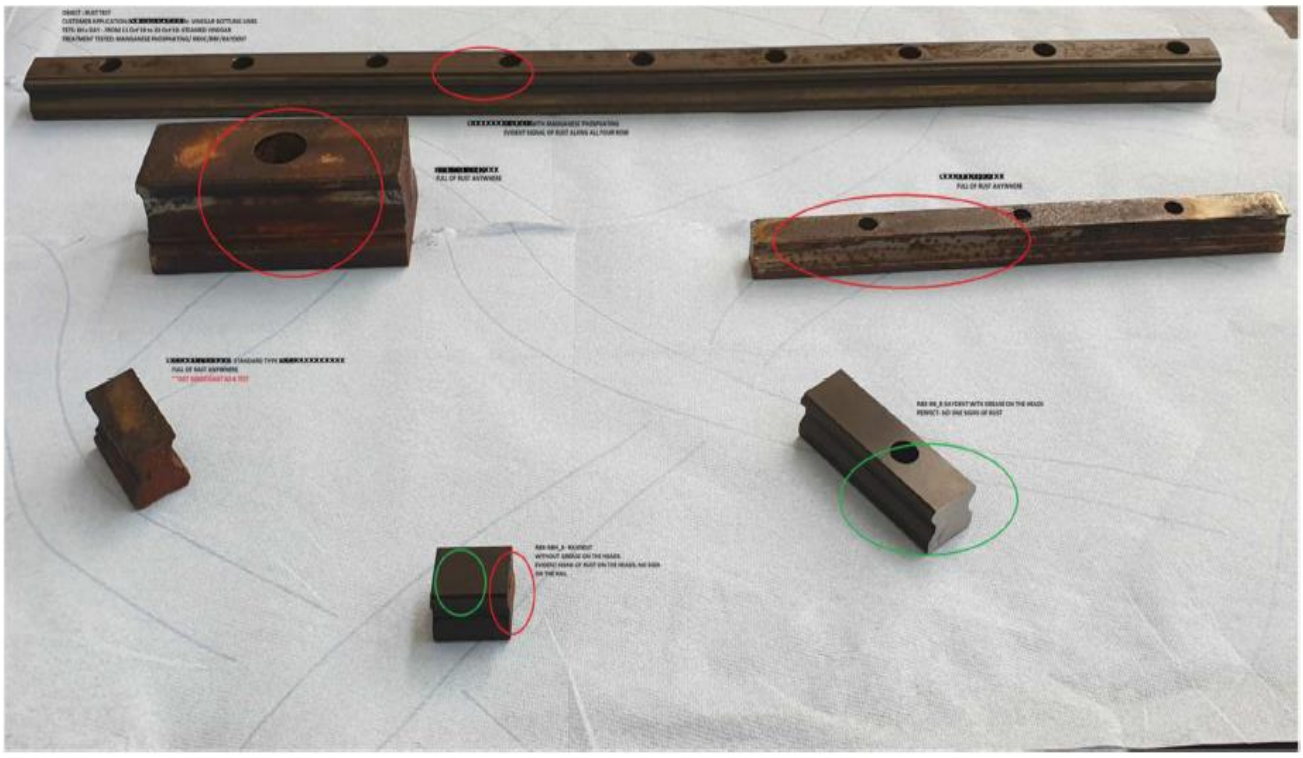
RAYDENT TEST:
VINEGAR AND SALT RAYDENT vs OTHERS TREATMENT



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WHAT IS RAYDENT PROCESSING?

"Raydent treatment" is a special surface treatment technology that uses an electroplating method tocreate an alloyed metal surface.

In other words, it is an electrochemical reaction at 0℃ or less thatdiffers from normal chemical reactions, which deposits a large number of ceramic-like chrome particleswith a size of approximately ϕ1μm or less. The main feature is that part of the film forms an alloyeddiffusion layer (approximately -1μm) inside the base metal material.
For this reason, [1] = The Raydent film and themetal base material are completely integratedand will not be separated semi-permanently(peelability), and the alloyed metal surface willbecome stainless steel after a period of stability.Furthermore, it forms a continuous strongprotective anti-corrosion film with the externalceramic oxide layer (approximately +1μm). [2] =Utilizing the properties of [1], various polymerresins (e.g. organic glass solution, fluorine resin,high-performance resin) are infiltrated into thecountless micropores of the Raydent film (= impregnation), and all physical and chemical properties (mechanical, electrical, chemical, optical, vacuum, thermal shock, etc.) in all industrial fields from space to the deep sea can be expressed semi-permanently without losing to strong mechanical deformation. Since it brings about a revolutionary evolution in industrial technology, this is called "Raydent Enhancement Engineering".

On the other hand, this unique raident coating also gives an innovative interpretation of Faraday's law of electrolysis.

In other words, while Coulomb's law, which is the theoretical basis for electroplating technology and JIS standards, is the law of proportionality of the amount of current, Raident film is the only technology in the world that has never been seen before and has demonstrated the theory of rust prevention (= infinite dispersion potential theory) with ultra-thin films from the side of potential difference. The greatest contribution of this technology to date has been to make it possible to use a wide variety of steel materials that are easy to rust but easy to process and lead the ultra-precision electronic equipment industry necessary for semiconductor manufacturing to the world's top position in the high-tech industry in Japan, represented by semiconductors.

Moreover, since the advent of this technology has the effect of significantly improving the durability and life of almost all metal products by several times or more in both rust prevention and surface modification compared to conventional products, there is no doubt that it will become a major core fundamental technology necessary to play a role in the future of Japan's industrial technology as a pioneer in the new field of resource-saving "high-life life extension engineering" that will be needed worldwide in the future. This advanced "raid processing ®" technology is unique to Japan, which was established on December 25, Showa 39 by the ingenuity of its founder, Ken Ogawa.