

Special Gear Coating



SD
CONSULTING





Special Coating

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GEAR COUPLINGS Special Coating Available

- ✓ All our gear couplings can be supplied with the SD-CO surface treatment. This special coating provides enhanced protection and performance in demanding working environments.



Corrosion resistance: Significantly improves protection against rust and chemical agents, especially in humid or aggressive environments

Improved wear resistance: Reduces friction between moving parts, minimizing surface degradation and extending the life of components

Lower maintenance: helps preserve mechanical integrity over time, reducing the need for frequent inspections and replacements

Enhanced surface hardness: Increases maintains resistance to scratches using processes and micro-abrasions caused by contact or contaminants



General Information

Coating project development started in 2023 and after testing on the field we are ready to implement it into all the required applications.

This special coating consist in 3 steps:

- a) Application of primer
- b) Application of antiwear
- c) Application of dedicated lubricant according to working/site conditions
- d) Apply every 9k~ working hours

Advantages

General advantages

- Reduction of friction coefficient
- Increase lifetime
- Allow the couplings to work for a limited period without lubricants
- It will show the areas with more working load in advance
- Optimization of the axial movement w/o wearing the surface

Advantages of a new installation

- Increase performances

Advantages of existing installation

- Reconditioning of existing teeth (micropitting or light wear)





Process to apply

- Clean teeth with a solvent and eventual manual grinding
- Heat the component with a wide flame (specific temperature required)
- Apply the first coat of Antiwear, covering any scuff, marks and pitting
- Wait drying- hardening
- Apply the second coat of Antiwear
- Wait at least 30 minutes
- Apply Primer to the teeth, covering the entire tooth space
- Apply lubricating grease



Property

Property Anti-wear	Values	Unis	Standards
Color	Black		Visual
Density	1,18	Kg/dm3	ISO12185
Base	H2O		
Property Anti-wear	Values	Unis	Standards
Color	Milky		Visual
Density	0,91	Kg/dm3	ISO12185
Base	Synthetic		



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all'avanguardia per le trasmissioni meccaniche
nell'industria pesante.

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