

8G-XXX-A017 SERIES

(DS XXXF)

Antimicrobial powder coatings



Information:

1. *Product features*
2. *Technical information*
3. *Variants and special formulations*
4. *Sublimation*
5. *Possible usage and applications*



Marchi di qualità registrati di **Decoral System®**



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TECHNICAL TOOLS

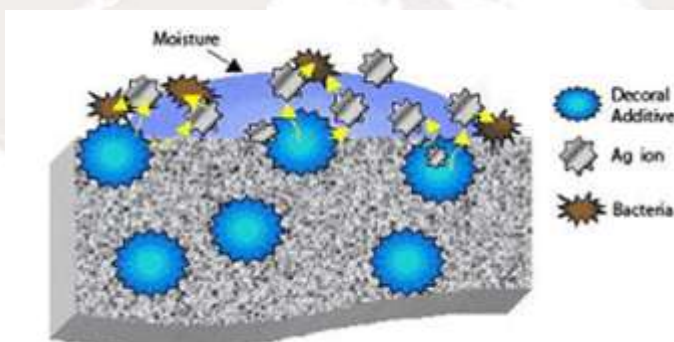
Laboratory Tests and Technical Documentation

1. Product features

The powder coatings of the 8G-XXX-A017 series (previous code: DS XXXF) are characterized by additives that make the surface of these coatings resistant to microbial growth; while on a normal surface microbes and bacteria can easily settle and proliferate, on objects and surfaces coated with 8G-XXX-A017 powders the bacterial growth is neutralized thanks to its special formulation.

These products have been tested by an independent laboratory in Japan, which has certified the antimicrobial efficacy against the two main kinds of bacteria (*Escherichia coli* and *Staphylococcus aureus*).

Besides, *Accelerated Weathering Tests* (AWT) have been carried out on these powders, simulating a ten-years period of exposure: the anti-microbial activity has proved to fully retain its efficiency, with a 100% microbial resistance at the end of the test.



2. Technical information

- Technical data

| | |
|-------------------------|------------------------------------|
| Powder type | Polyurethane |
| Class resistance | Class 1 (suitable for outdoor use) |
| Yield (in surface/mass) | 13,1 m ² /Kg |
| Specific weight | 1,27 ± 0,03 g/cm ³ |

- Application and curing cycle

Available for corona charging.

Curing time and temperature: 25 minutes at 195°C – 383°F (metal temperature).

- Mechanical proprieties

| Test | Standard reference | Result |
|------------|--------------------|-------------------------|
| Buchholz | ISO 2815 | ok |
| Adhesion | ISO 2409 | No loss of adhesion; ok |
| Bending | ISO 1519 | No loss of adhesion; ok |
| Salt spray | ISO 9227 | corrosion <4 mm; ok |

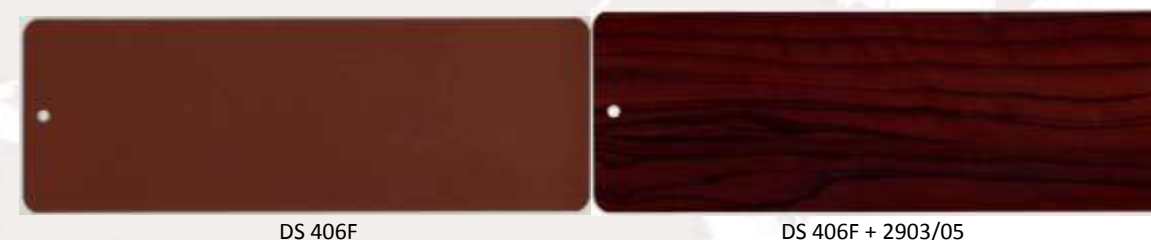
3. Variants and special formulations

On customer's request, the following formulations are available:

- Matt, glossy, or textured;
- Class 2;
- Low-cure.

4. Sublimation

The powders of the antimicrobial series are suitable for the decoration with heat-transfer technology, to match the functionality of this special product with the aesthetic value of a wood effect or a decorative motif.



5. Possible usage

This series has its perfect application in environments where cleanliness and hygiene are most important: hospitals, kindergartens and canteens are just some of the many possible places that this product would finely suit.

