

Nano Ceramic Laser active Coating MC-5886D

Product Description

MC-5886D is a two-component inorganic flexible nano ceramic coating with more than 80% effective solid components. It has excellent corrosion resistance, UV resistance, weather resistance, temperature resistance and so on. It can even be cured at -10°C.

Typical Application

Widely used on the surface of any steel structure ,fiber reinforced composite material etc with proper surface treatment to meet with the 3D-MID requirement on different surface. such as Aluminum, SST, Carbon fiber composite material, glass fiber composite material, LCP, PEEK, PPS ETC. which have been used on the key part without the body material degrade and performance loss.



Data and Specification

Color	Silvery white
Curing agent model	MC-289DM
Gravity	1.15-1.30g/cm ³
Gross	bright
Solids by volume	80±1%
Dry film thickness (DFT)	50-80μm
Theoretical Coating rate	0.15-0.20 kg/m ² @80μm dry film thickness
Surface dry	<30min (20°C, varies with temperature, humidity and ventilation)
Complete cure	24-48Hours (20°C)

Operation conditions

Product mixing ratio	MC-5886D:MC-289D=10:1
Temperature	Minimum -10°C
Relative humidity	No specific, it can be cured in high humidity even in water.
Operation method	brush, roller, air spray

Operation Guideline

1. Surface treatment
After the middle coat MT-6035 is dry, spray MC-5886D on it.
MC-5886D can be sprayed directly on the surface of sandblasted substrate, too.
2. Preparation of product
 - 1) Mixing: Stir or agitate well by inverting the barrel, then mix two components as ratio MC-5886D:MC-289DM=10:1, stir evenly for at least 5 minutes.
 - 2) Filtration: Filter with stainless steel #80-100 mesh, please spray immediately after filtering. Note: before spraying, it is necessary to clean the relevant equipment thoroughly. The recommended cleaning process is as follows:
 - A. Use the water or the diluent packed with the product to clean the equipment thoroughly and remove the residual.
 - B. Use the industrial alcohol or other polar solvents to clean the equipment repeatedly (2 cycles)
3. Spraying
Nozzle diameter : 1.5-2mm
Pressure at nozzle : 0.2-0.3mpa (2-3kgf/cm²)
Distance between the nozzle and the surface: 15-30
After spraying, please use the industrial alcohol to wash the gun totally.
4. Drying and Curing
Surface dry : < 30 minutes (20 ° C)
Complete cure : 24-48hours (20 ° C).

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly.

1. The product is operated well ventilation.
2. The product container must be closed after used.
3. When opened, used up as soon as possible, and the unused must be sealed for storage.
4. Make sure all areas are painted and not missed.

Storage

1. Keep the container in a dry, cool, well ventilated space and away from sources of heat or direct sunlight.
2. The shelf life is 12 months at 5 ~ 30°C
3. Packaging(typical): MC-5886D 18.82kg/20kg barrel, and MC-289DM 1.18kg/5kg barrel.

Emission

Do not discharge the product into the waste water. Collect it into a special container for professional treatment.

First aid

1. In case of leakage or spillage, please collect it with container and clean with plenty of water.
2. If the product enters the eye by accident, rinse immediately with lots of water for at least 15 minutes. If feel pain, see a doctor immediately.
3. If the product contact with the skin, wash it with water and soap. If feel uncomfortable, see a doctor immediately.
4. If inhaled the product accidentally in the spray, move to the fresh air immediately, then see a doctor immediately.