

KEMP G-SAVE (2 KIT)

Inorganic ZincFlake Coating

KEMP GSAVE is a inorganic, self-curing zinc flake coating designed for the protection of damaged hot dip galvanizing. It fixes high purity zinc flake and forms a dense glass film on the damaged hot dip galvanized steel to restore the initial hot dip galvanized steel condition. GSAVE is an environmentally friendly inorganic metal coating that contains no harmful solvents(Xylene,toluene etc) in the human body and does not contain heavy metals.

Uses

Restoration of old (damaged) hot-dip galvanizing.

Features

1. Finished conditions: Matt and Metallic Silver
2. Drying time: 5~10 minutes are required for the tack-free dry |
(expected 1 day after the natural dry and 7 days later respectively).
3. Solid volume ratio: 34% ISO3233
4. Theoretical coating ratio: 17~11m²/kg at the condition of 20~30μm on the plane
5. Specific gravity: For mixture, about 1±0.02 ASTM D1475
6. Coating type: Spray(HVLP), Roller
7. Initial manufacturing viscosity Zahn #3: 14 ~ 16 seconds
Maximum usable viscosity: Within 25 seconds (Spray,roller)
8. Heat-resisting temperature: 450°C
9. Storage period: 10 months from the date of manufacturing with sealed.

Coating Specification

1. Surface pretreatment
 - : Use high pressure water and plastic brushes to clean the hot dip galvanized steel surface.
(If the contamination is not severe and high-pressure water can not be used, clean it with a brush and high pressure air blowing)
 - : Allow the remaining water on the surface to dry completely.
 - : If rust has occurred on the surface of hot dip galvanizing, remove the rust.
(Equipment use is effective, also can use chemical rust remover.)
2. Coating Conditions
 - Temperature of 0°C ~ 35°C is suitable as the coating ambient temperature.
 - Relative humidity is less than 85%.
 - Temperature on the surface of basic material shall be 3°C higher than the dew point.
3. Mixing
 - : P/1 (BINDER) : P/2 (Zinc Flake) : P/3 (Aluminum Flake)
= Weight ratio (1 : 0.27 : 0.03)
 - Mix the coating material according to the indicated ratio.
 - Agitate the P/1 solution after putting the P/3 and P/2 powders in the container so that the vortex is formed and then agitate the solution for more than 20 minutes so that the metallic powder may be spread without coagulation.
* If you filter the paint using the 100MESH Net, you may prevent the spray nozzle from being clogged by filtering the contaminated items and foreign substances.

4. Pot time

: Usage time after mixing , within 40hr

Usage time after mixing and sealing on room temp.within 72hr

(5~10°C Refrigerated storage recommended)

(When mixing old GSAVE with new GSAVE up to 3 days ago, the pot time will increase by 12 hours.)

5. Dilution (Thinner: IPA, N-butanol)

:: Viscosity increasing dilution condition (Zahn # 3 Over 25 seconds)

- If viscosity increases during use, use 5 to 20% of diluent and use as soon as possible.

- If viscosity increases during use, New GSAVE can be diluted 20 to 40% and used for 12 more hours.

6. Coating Methods

: When coating with air spray gun, Nozzle diameter : 1.5 ~ 2mm,

injecting pressure : 2kgf/cm² ~ 4kgf/cm² and injecting angle : Frontal angled

: When coating with HVLP SPRAY gun

Nozzle diameter : 1.5 ~ 2mm,

injecting angle : Frontal angled

Coating Process

1. Cleaning : Use high pressure water and plastic brushes to clean the hot dip galvanized steel surface
2. Surface drying: Natural dry or high pressure air blowing
3. Coating : Mix the GSAVE according to the indicated ratio and then use after the filtering process. (Please prevent Dust Coating)
4. Dry : natural dry
5. Thickness of paint film : Thickness of 20~ 30μm is recommended as the thickness of dried paint film

Other Cautions

1. If you put the coated item in the solution of high temperature quickly after the coating of product, popping phenomenon may occur, so pay careful attention
2. Make sure to agitate the paint slowly so that the powder may not sink down.
3. Pay careful attention so that the coated area may not be contaminated by the dust during the coating process
4. Make sure to wash the spray gun after the use
5. If the coating material contacts your eyes, or when you inhale the coating material, it may cause the stimulation, so pay careful attention
(for the details, refer to the MSDS)
6. Do the work under the smooth ventilation environment
7. Avoid the moisture and direct sunlight during the storage
8. For the other inquiries, contact us via an e-mail or over the phone.

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