



Technical Data Sheet

(SHC-1000M)

STARKEMER CO., LTD.

Overview of Product

SHC-1000M is water solubility transparent coating and primer material consist of organic and inorganic complexing resin with a 1-liquid. It doesn't smell and has rapid hardening, require long pot times, so usability is far superior in water solubility type. Also, the product has high abrasion resistance, fouling resistance with superior properties after coating formation.

General Characteristics

- It doesn't smell and has long pot times and rapid hardening.
- The product is harmless to the human body and can reduce environmental pollution by water solubility.
- Repainting is possible.
- Usability is far superior in a 1-liquid.

Usage

Coating of flooring for interior design.

Mix Proportion And Surface Finishing

- Mixing Ratio (Weight Ratio)
One Component type
- Surface Finishing
Gloss : Semimatt
Color : Transparent
- Suggested Coating Thickness
The norm of painting for once, 50 μ m ~ 100 μ m
(Refer to 'Specifications of Painting'.)

Physical Properties

- Liquid Physical Properties

| Test details | Unit | Measured value | Test condition |
|-------------------|--------------|----------------|-------------------|
| color | - | White | - |
| Mixing viscosity | cps | 10~30 | Ford cup #4, 25°C |
| Specific gravity | - | 1.0~1.1 | 25°C |
| Pot time | min | More than 5 | 100g×25°C |
| solidified powder | % | 30~35 | Theoretical value |
| Curing time | Temperature | 10°C | 20°C |
| | Set to touch | 2Hours | 1Hour |
| | Dry hard | 12Hours | 6Hours |
| | Full cure | 7Days | 6Days |

※ The test result that is laboratory environmental standards may differ due to environment (flat surface, wind, humidity etc.) for scene implementation.

- Peculiarity of Dry Paint Film

| Test details | Test result | Test condition |
|---------------------|---|----------------|
| Chemical Resistance | 5% NaOH×20°C×168h | Nomal |
| | 5% H ₂ SO ₄ ×40°C×24h | Nomal |
| | 3% NaCl×20°C×24h | Nomal |
| Water resistance | Distilled water × Ordinary temperature × 168h | Nomal |

Specifications of Painting

- System of Painting

A. Transparent coating system(Dry surface basis)

| | |
|---|---------------------------------|
| One-time painting criteria 50~100 μ m | SHC-1000M (Transparent coating) |
| | SAC-1100M(Primer) |
| 50 μ m | Cement Floor |
| 50 μ m | SAC-1100M(Primer) |
| 50 μ m | Surface |

- Properties of System : Superior gloss

B. Transparent coating system(Dry surface basis)

| | |
|---|---------------------------------|
| One-time painting criteria 50~100 μ m | SHC-1000M (Transparent coating) |
| | SHC-1000M (Transparent coating) |
| 50 μ m | Cement Floor |
| 50 μ m | SAC-1100M(Primer) |
| 50 μ m | Surface |

- Properties of System : create semimatt effects

- Method of Painting

A. The working hand tools of recommendation

| Film thickness(One time painting) | Working hand tool |
|-----------------------------------|-----------------------------|
| 50 μ m ~ 100 μ m | Two-way roller in water-oil |

B. Theoretical spread rate :

Dry film thickness for one time based on 75 μ m, 0.25kg/m².

- ※ The product may change depending on concrete or surface condition because difference of absorption rate for theoretical spread rate. Also, it should be repainting when necessary, if absorption rate of surface is big, decline of luster can appear partially.

Directions For The Use

- The temperature in appropriate to more than 10°C for painting and curing. Avoid using it if relative humidity is more than 80% and surface temperature must be 3°C more than dew point.
- Use paint after force the paint temperature to be over 10°C in the winter season. When the surface temperature has low temperature of less than 10°C, it will result in quality defect by the delay of curing velocity and appearance problems or Ice-formation phenomena and others.
- The decline of luster can appear, thus, additives separate by low viscosity. So, before use, the product should be well shaken.
- Make sure that there is adequate ventilation in the indoors during using paint and remember to wear respiratory protective equipment in an enclosed space. For the heated product, use exhaust ventilation to remove vapor.
- For more informations, Please refer to the notice in the product label and the Material Safety Data Sheet(MSDS) of each products.

Method of Product Storage

- This paint must be kept hermetically sealed airtightly and keep this paint out of the direct rays of the sun and avoid humidity. (Storage temperature: Room temperature)
- Store paint in a cool dry place.
- Once opened, use an entire quantity because the hardner acquiring the property of moisture absorption is respond to moisture in the air.

Product Mark Demonstration

- Product code demonstration

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Manufactured year

Manufactured month

Manufactured date

Serial number

- Product label marking

- Name of product, weight of Lot No., directions for the treatment, etc.

- Packing unit

- 10kg

※ The packing unit can be changed as customer requests.

- Preservation Period

- 6months from date of manufacture.

