

# SAC COAT

## Special Anti-Corrosion

Inorganic anticorrosion / rust-proof coating material containing carbon fiber

Secure, Safe, tough, and durable ecological material

### Characteristics

#### 1. Environment/Health-friendly coating material

- Unlike organic paint, this is a material friendly to the environment that does not use thinner etc.
- This is a health-friendly paint that does not contain harmful substance such as formaldehyde or chlorpyrifos and you don't have to worry about catching fire or bad odor etc.

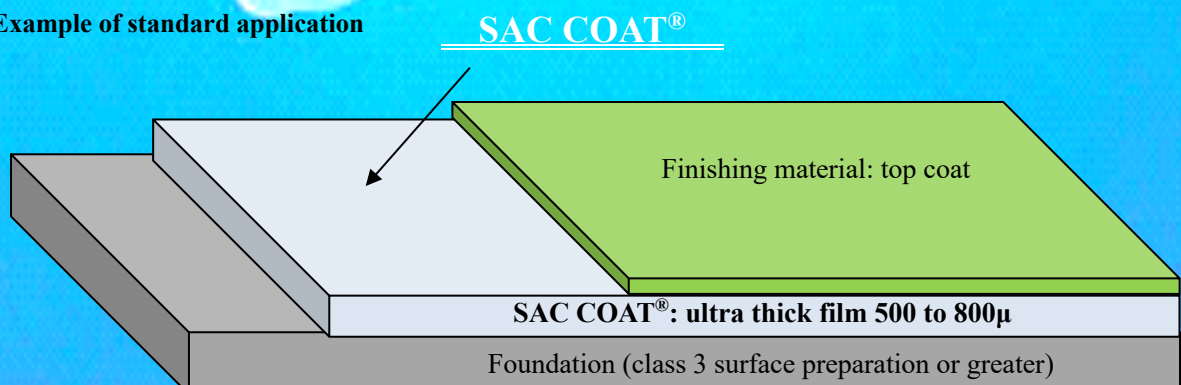
#### 2. Mechanism

- Long-term anticorrosion / rust-proof system for structure ensured by high alkaline property (formation of passivation film)
- Strong ultra thick film system using inorganic material
- Formation of powerful protection layer by dispensing reinforcement fiber
- Formation of coating film with breathability

#### 3. Performance / Characteristics

- Strong coating film superior in expansion and contraction, tension, impact is formed by reinforcement fiber compounding technique to protect a structure for a long time.
- High breathability and hydration reaction remove the residual moisture and keep rust-proof property for a long time by forming passivation film.
- This product is hardly affected by ultraviolet ray and superior in high temperature and low temperature durability.
- Strong adhesive property of special emulsion enables the application to various structures of steel stock, concrete, slate, ALC, and wood building materials etc.

Example of standard application



## Characteristics of SAC COAT®

| 1. Main component of material (mixing ratio: SAC Liquid : SAC powder = 1:2.3) |            |                                  |  |
|---|------------|----------------------------------|--|
| (1)   | SAC Liquid | Acrylic acid ester copolymer     | Improvement of adhesiveness                                  |
|   |            | Passivation film imparting agent | Promotion of formation of passivation film                   |
|   |            | Various adhesive agents          | Improvement of defoaming / dispersion etc.                   |
|   |            | Water                            | Hydration coagulation reaction                               |
| (2)   | SAC Powder | White cement                     | Provision of alkaline property                               |
|   |            | White silica                     | Fine aggregate   |
|   |            | Reinforcement fiber              | Improvement of intensity                                     |
|   |            | Various adhesive agents          | Viscosity / dispersion improvement, agglutination inhibition |

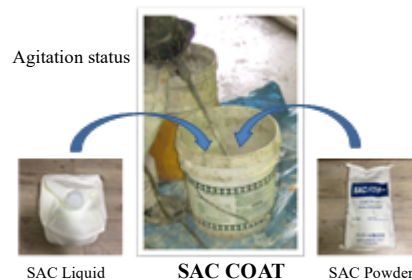
| 2. Mechanism of generation of effect   |  |  |
|--|--|--|
| Suppression of generation of crack<br>Improvement of bending resistance        | Addition of reinforcement fiber                          | Improvement of tensile strength by reinforcement fiber                 |
|  | Use of high-performance emulsion                         | Improvement of adhesive power by improving interparticle bonding force |
| Improvement of durability / weather resistance<br>Consideration to environment | Improvement of adhesiveness by high-performance emulsion | Formation of dense structure   |
|  | Improvement of tensile strength by reinforcement fiber   | Generation of crack is suppressed                                      |
|  | Non-use of solvent                                       | Generation of gap after evaporation of solvent is prevented            |
| Reinforcement of anticorrosion / rust-proof effect                             | Improvement of waterproofing property                    | Moisture / oxygen on metallic surface is suppressed                    |
|  | Preservation of alkaline property                        | Formation of passivation film  |

| Application list for each specification               |  |  |   |
|---|--|--|---|
| Specification   | Basic concept of application   | Actual application point                       | Overcoat  |
| 1.0kg/m <sup>2</sup><br>2-layer coating specification | Indoor and outdoor, when the corrosive environment is comparatively medium | Internal region<br>(under general environment) | Water base paint, thermal barrier paint, weak solvent type paint etc. |
| 1.6kg/m <sup>2</sup><br>3-layer coating specification | When the corrosive environment is severe, such as at sea                   | Coast area<br>(under severe environment)       | Polyurethane resin paint, fluorochemical resin paint etc.             |

Packing style: **SAC COAT 46kg set**

SAC Liquid 7kg × 2/box

SAC Powder 16kg × 2 bags



Manufacturer: **IR Inc.**

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