

**CHEMILINK**  
ZERO WASTE ENGINEERING

# CHEMILINK™ SS-224H

## Acrylic Polymer Cementitious Coating (APCC, High Performance)

### Description

Chemilink™ SS-224H is a two-part, high performance polymer modified cementitious coating material blended with acrylic polymer. Part A is the grey powder consisting of special cements, hydraulic binders and other additives to achieve good workability, good adhesion and high strength. Part B is the milky-white emulsion consisting of acrylic polymer and other appropriate additives. SS-224H is recommended as an abrasion, skid and high strength coating for both internal and external applications. It is designed to cover surfaces at a rate of 3 to 5mm in thickness per single placement. It can be used in car park.

### Typical Uses

- Upgrading or new projects on car park, building aprons, corridors, staircases etc.;
- Raising floor levels to a particular requirement; and
- Other potential applications.

### Advantages

- High compressive and tensile strength;
- Excellent adhesions to a given concrete substrate in upgrading and new projects;
- Good skid resistance;
- Good flexibility and overall durability;
- Easy to use the pre-blended / pre-packed materials (dry mix); and
- Labour cost savings.

### Surface Preparation

The surface of the area to be treated should be clean and free from dust, dirt, grease and/or other loose contaminants. Pressured washing is recommended for this surface cleaning task. All concrete substrates must be structurally sound and all cracks must be routed out and repaired with appropriate repair compounds.

Once the area is clean, brush or roll Chemilink™ SS-232 (primer) evenly onto the surface. Depending on the environment, it may take approximately 5 to 30 minutes for the primer to become touch-dry.

### Technical Data

- Compressive Strength (ASTM C109:02): 40 – 60 MPa
- Flexure Strength (ASTM C348:02): 10 – 15 MPa
- Tensile Strength (ASTM C307:03): 6 – 7 MPa
- Skid Resistance (ASTM E303:03): 104 BPN
- Shear Bond Adhesion (ASTM C482:02): 2.1 MPa
- UV Exposure (ASTM 154:00)
  - 500 hours
  - 1000 hours No cracking, softening or delamination
- Water Penetration @ 0.4kgf/cm<sup>2</sup> (bar) for 6 hours (DIN 1048: Part 5:91): 0, No water penetration.
- Identification of polymer (FTIR): No trace of polyvinyl acetates (PVAs)

Note that the primer is designed to improve adhesion; to prevent the coating material from debonding and to prevent pinholes on the finished surface. **Use the original primer from the container – DO NOT dilute; DO NOT blend with any other product.** Stir the primer contents well before use. The primer should be re-applied if the primer-treated surface is disturbed or it has been primed for more than 6 hours.

Under the conditions that the ground (surface to be treated) temperature is above 45°C, the surface should be wetted and cooled down to avoid flash set of the primer.

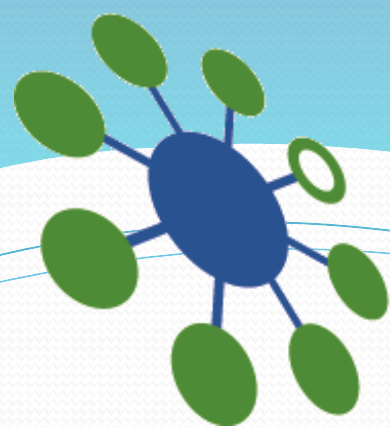
### Mixing

When the primer is touch-dry, add approximately 5.0L of SS-224H Part B (liquid) to a clean bucket or pail (capacity of 20L), and then slowly add a 25 kg bag of SS-224H Part A (powder) while it is being electrically stirred. **DO NOT add Part B (liquid) to Part A (powder).** Ensure 2 to 3 minutes of mixing time till the mixture is homogeneous and lump-free.

Note that electric stirring (mixing gun or other mechanical stirrer with rotation speed of ≥ 1,300 rpm) is highly recommended. Concrete mixers or hand mixing are not suitable mixing methods.

Thoroughly clean mixers and tools immediately after each batch to avoid material buildup. Use clean equipment for mixing. For any additional instructions that are not covered above, please kindly contact the product principal.





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### Placing and Finishing

After mixing, place the mortar mix onto the primed surface; move it to position with an underlayment spreader. SS-224H may be placed for a thickness between 3 mm and 5mm. For anti-skid surfaces, brooming to desired texture may be done shortly after initial set.

### Curing

In hot and dry conditions, SS-224H should be cured with water spraying or appropriate curing compound and the finishing surface is highly recommended to be treated with an appropriate sealant.

### Usage and Coverage

The recommended thickness is **3 to 5 mm per layer**. For placement of more than one layer, each subsequent layer should only be placed after the previous layer has been hardened (a minimum of 24 hours). One 30kg set of SS-224H yield approximately 0.0135 m<sup>3</sup> or 13.5 liters, and cover approximately:

- ~ 4.5m<sup>2</sup> at 3mm thick
- ~ 2.7m<sup>2</sup> at 5mm thick

### Package and Storage

Package: approx. 30 kg set, consisting of Part A – 25 kg powder and Part B – 5kg emulsion.

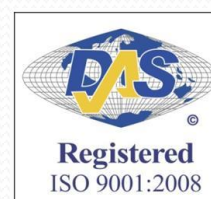
Shelf Life: 6 months from the date of manufacture if both parts are stored in original packaging and kept in a dry and cool place.

### Safety

SS-224H is cement based, alkali in nature and non-hazardous. It is recommended that applicators wear PVC or equivalent gloves and safety goggles when using SS-224H. In case of eye contact, wash thoroughly with clean water and if irritation persists, please seek medical treatment immediately.

Total Solution Provider for Civil & Building Construction

Jan 2013



Cert No 80091



Cert No 64916/SG/A/90002



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