

CHEMILINK™ SS-224HRF

Acrylic Polymer Cementitious Coating (Reinforced APCC, High-Performances)

Description

Chemilink™ SS-224HRF is a two-part, reinforced high performance polymer modified cementitious coating material blended with acrylic polymer. Part A is the grey powder consisting of special cements, hydraulic binders, other additives and reinforced to achieve good workability, adhesion, anti-cracking effect and high strengths. Part B is the milky-white emulsion consisting of acrylic polymer and other appropriate additives. SS-224HRF is as an anti-abrasion, anti-skid, anti-cracking and high strength coating mainly for both concrete pavement surfacing and repairing. It is generally designed to cover surfaces at a rate of 10 to 30mm in thickness per single placement and used for some pavement surfaces including car parks and roads.

Typical Uses

- Upgrading or new projects on internal and external car parks, roads, building aprons, corridors, and etc.;
- Leisure ways such as park connectors, or foot paths;
- Concrete pavement surfaces including public roads; and
- Other similar applications.

Advantages

- High compressive and tensile strengths;
- Excellent adhesions to a given concrete substrate in upgrading and new projects;
- Anti-skid;
- Good flexibility and overall durability;
- Enhanced anti-cracking ability;
- Easy used pre-blended / pre-packed materials (dry mix); and
- Labor 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.

Typical Technical Data

- Compressive Strength (ASTM C109:02):
 - 15-20MPa at 7-day
 - 25-30MPa at 14-day
 - 30-40MPa at 28-day
- Flexure Strength (ASTM C348:02): 8-9 MPa
- Tensile Strength (ASTM C307:03): 5-6 MPa
- Skid Resistance (ASTM E303:03): 60 BPN
- Shear Bond Adhesion (ASTM C482:02): 2-3 MPa
- UV Exposure (ASTM 154:00)
 - 500 hours
 - 1000 hours No cracking, softening or delamination
- Water Penetration @ 0.4kgf/cm² (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.

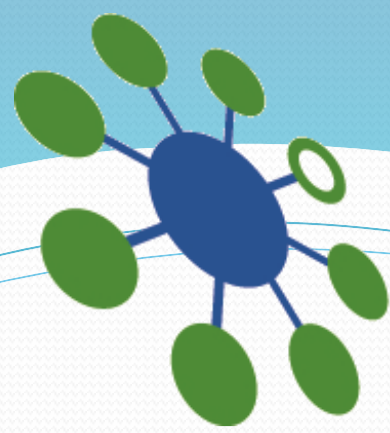
Under the conditions that the ground (surface to be treated) temperature is above 45°C, the surface should be wetted and cooled down to avoid flash set of the primer.

Mixing

When the primer is touch-dry, add approximately 4.5kg of Part B (liquid) to a clean bucket or pail (capacity of 20L), and then slowly add a 25 kg bag of Part A (powder) while it is being electrically stirred. **DO NOT add Part B (liquid) to Part A (powder).** Ensure 3 to 5 minutes of mixing time till the mixture is homogeneous and lump-free.

Note that electric stirring (mixing gun or other mechanical stirrer) 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 mixture onto the primed surface; move it to position with an underlayment spreader. SS-224HRF may be placed for a thickness of about 10mm to 30mm. For anti-skid surfaces, brooming to desired texture may be done shortly after initial set.

The new surface can be opened for uses usually after 7 to 14 days, provided that the technical requirements are met at different application cases.

Curing

In hot and dry conditions, SS-224HRF 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 about **10 to 30 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) and each previous surface must be primed. One 29.5kg set of SS-224HRF yields approximately 0.0135 m³ or 13.5 liters, and cover approximately:

~ 1.35m² at 10mm thick

~ 0.65m² at 20mm thick

~ 0.33m² at 30mm thick

Colours

Dark grey

Other colours can be supplied upon request.

Package and Storage

Package: 29.5 kg set, consisting of Part A – 25 kg powder and Part B – 4.5 kg 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-224HRF 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-224HRF. In case of eye contact, wash thoroughly with clean water and if irritation persists, please seek medical treatment immediately.

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CHEMILINK™ TECHNOLOGIES & PRODUCTS

20 Kranji Road Singapore 739462

Email: sales@chemilink.com

Website: www.chemilink.com

Tel: (65) 6252 2201

Fax: (65)6252 7886