Ultrapower AC Lining MA High Chemical Resistance Protective Coating

DESCRIPTION

Ultrapower AC Lining MA is a specially formulated with novolac phenolic hybrid polyamide polyamine epoxy-based protection coating with exceptional chemical resistant and high abrasion resistance.
Ultrapower AC Lining MA can be applied in wide range of surface condition, steel rebars and steel sheet, and any other concrete and/or steel surface that need to protect. Seamless, dense, and compact application of **Ultrapower AC Lining MA** gives a great protection property.

FEATURE

- Solvent-free, less odor
- Excellent adhesion to wide range of surface
- Great abrasion and chemical resistant.
- Applicable for range pH 4 – 10

USAGE

Area of application includes:

- Chemical exposed substrate surface.
- Internal area of concrete, steel or any other substrate that contain a certain chemical.
- Internal area of water treatment with concrete, steel or any other substrate.
- Wastewater treatment surface.
- Potable Water container, swimming pool

PROPERTIES

Form	Viscous colored liquid (A) Yellowish transparent liquid (B)
Color	Customized
Mixed Density, g/mL	1.10 ± 0.05
Mixing Ratio	4:1
Pot Life at 25°C	Within 2-3 hours
Initial Setting time at 25°C	Within 4-6 hours
Final setting time at 25°C	Within 10-12 hours
Ultimate setting at 25°C	Within 7 days
Solid Content	Up to 91%

INSTRUCTION OF USE

1. Surface Preparation
   Long term durability of a flooring system is determined by adhesive bond achieved between waterproofing material and substrate. Correct and proper substrate preparation prior to body coat application is the most important step.
   A. New Concrete
      This concrete must be aged for 28 days, substrate moisture content must be less than 6%, and minimum grade is RC30 of BS 8500-2: 2002 standard, should not contain water repellent agent, Pull-off strength should exceed 1.5 MPa. Substrate should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excessive laitance can be removed using mechanical methods.
   B. Old Concrete
      Substrate moisture is maximum 6%, minimum grade is RC30 of BS 8500-2: 2002 standard, should not contain water repellent agent, Pull-off strength should exceed 1.5 MPa. Oil and grease penetration should be removed using a proprietary chemical degreaser or by hot compressed air treatment. Any damaged areas or surface irregularities should be repaired using one of the Epoxy Putty

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C. Steel
Blasting should be conducted to achieve SS 2 1/2 or SSPC SP-10 standard surface profile. The substrate must be free from oil, grease, dust, or any other contamination that would affect bond strength.

2. Excessive dust, debris, and others contaminant material should be removed using high pressure blower or industrial vacuum cleaner.

3. Mixing
Mix thoroughly **Ultrapower AC Lining MA** Part A and Part B using medium speed (300 – 500 RPM) mixer with spiral-shaped steel stirrer for 3 minutes to achieve consistent quality and color.

4. Placing
Using General tools:
- Apply **Neopox #1400MA** Primer first when the substrate is too porous
- 1^{st} Coat
  Apply thoroughly onto surface using brush, roller squeegee, or airless-spray application depends on application condition
- 2^{nd} Coat.
  2^{nd} coat can be placed when 1^{st} coat initial curing already achieved.
  Apply thoroughly onto surface of 1^{st} coat using brush, roller squeegee, or airless-spray application depends on application condition

Using Pressurized Spray:
- **Airless Spray**
  Nozzle Tip 0.46 – 0.58 mm (0.018 – 0.023 inch)
  Nozzle Pressure 10 MPa (approx. 1400 psi)
- **Conventional Spray**
  Nozzle Tip 1.8 – 2.0 mm (0.071 – 0.079 inch)
  Nozzle Pressure 0.3 MPa (approx. 43 psi)

CLEANING	Tools and equipment just can be cleaned with acetone or thinner immediately after use. Cured product only can be removed using mechanical action.
PACKAGING	20 Kg per sets Theoretical Consumption 0,35 – 3,4 kg/m^2 for 0,3 – 3,0 mm thickness (theoretically)
STORAGE	Store in the dry conditions between 5 – 30 °C. Put away from sources of heat and naked frames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.
SHELF LIFE	1 year in an unopened and undamaged packaging.

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SAFETY MEASURES	Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, wash thoroughly with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin clearer followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.
DISPOSAL	Spillage of products should be absorbed on to earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal regulations. For further information, refer to the Product Material Safety Data Sheet.

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CHEMICAL RESISTANCE

Generic Resin Type Chemicals	AC-Lining
Acetic Acid – 10%	E2
Acetic Acid – 100%	N
Gasoline-Unleaded	E2
Hydrochloric Acid-10%	C1
Hydrochloric Acid-37%	E2
Kerosene	E2
Methyl Ethyl Ketone	D2
Nitric Acid-10%	N
Nitric Acid-60%	N
Oils	D2
Sodium Hydroxide-10%	D1
Sodium Hydroxide-50%	E2
Sulfuric Acid-50%	N
Sulfuric Acid-75%	N
Vinegar (Acetic Acid-3%)	C1

These ratings are typical for polyester and vinyl ester linings and reflect the maximum recommended temperatures. Maximum temperature for any given lining type may be lower depending on lining thickness and permeation resistance.

Resin Abbreviations

AC-Lining	AC Lining MA

Ratings

1	Good for immersion
2	Limited to spillage (flooring)
A	Good to 200°F (93°C)
B	Good to 180°F (82°C)
C	Good to 140°F (60°C)
D	Good to 120°F (49°C)
E	Good to 100°F (38°C)
N	Not Recommended

JTCC
JT Construction Chemicals

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