

Description

ACM 702 is formulated acrylic/ styrene copolymer dispersion. Use for modifying hydraulic binders, especially cement mixtures. It imparts an extremely liquid consistency to these compounds and thus allows a considerable reduction of quantity of water with all consequent influences on the properties of the product obtained. It has excellent water impermeability, increase oil and chemicals resistance. Increase the bonding strength of cement mixture. Increase the flexural/ tensile strength of the cement mixture. Allow the cement mixture to be applied in thin layer without surface powdery. No shrinkage crack exists after applying ACM 702. And it also improve workability and plasticity.

Recommended Application

It is used for cementitious waterproofing coating; repairing faulty concrete and concrete honey comb; resurfacing concrete floor, industrial seamless flooring; tile adhesive; new and old concrete bonding agent.

Based

Acrylic / styrene copolymer emulsion

APPEARANCE

Color

Milky White

Finish

Depends on application

APPLICATION DATA

Flash Point	Non-flammable
Soilid Content	Approx. 50%
Viscosity (23°C)	170-500 mPa.s
Specific Gravity	1
Lowest Application Temperature	8°C
Drying Time	Depends on application Drying time may be varied by temperature and humidity change. The lower the temperature or the higher the humidity exists, the longer the drying time needs.
Overcoating Time	2-4 hours Drying time and overcoating time may varied by the volume of water, cement, temperature, humidity. When low temperature and high humidity exist, longer drying times should be allowed.

Loyal Enterprise Company

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Coverage Rate

Usage	Thickness of layer	kg/ M ² (Approx.)	M ² / kg (Approx.)
Waterproofing coating	3 mm	1.33 kg / M ²	0.75 M ² / kg
Bonding agent	5 mm	0.85 kg / M ²	1.17 M ² / kg
Patching compound/ flooring/ concrete resurfacing	5mm	0.5 kg / M ²	2 M ² / kg

** Assume the ratio for ACM 702, cement and sand are the same as in application method section.

** The above coverage refers to application on smooth surfaces and allowance should be made for irregular surfaces and wastage.

Packaging

Unit Size
1 kg
5 kg
25 kg

Thinner/ Cleaning

Clean water.

Wash gear up regularly and often using water.

Storage and handling

It is not allowed to come into contact with any corrodible metals or alloys. Containers must be tightly closed during storage. The air inside storage tanks must be continuously saturated with water vapor. Intense heat as well as frost is to be avoided.

It is sufficiently preserved for transport. In order to protect the material against microbial attack during subsequent storage, a preservative must still be added and storage tank hygiene measures taken.

It can be stored for about 12 months if kept at 10 - 30 °C

Application Method

For cementitious waterproofing coating:

Suggested formulation (By weight):

ACM 702	1 Part
Water	1 Part
Portland cement	5 Parts

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Procedure:

1. Mix ACM-702 and water by the ratio 1:1-2 thoroughly than apply as primer.
2. Mix the above mixture (ACM-702 : water : cement = 1 : 1 : 5) with hand mixer about 10 - 15 minutes.
3. Apply the mixture in about 1mm thickness for each coat by roller, brush or scraper. Repeat the procedure for three coats.
4. Spray with water to the surface of final coat to keep wet about 2- 3 days.
Please note that the above waterproofing coating is cementitious rigid type, unsuitable for expandable substrate.

For bonding agent, tile adhesive:

Suggested formulation (By weight):

ACM 702	1 Part
Water	1 Part
Portland cement	5 - 10 Parts
Fine sand	2 - 10 Parts

Procedure:

1. The surface of substrate should be clean, dry (or slightly damp) , sound and free of grease.
2. Mix ACM 702 and water with ratio 1:1-2 stir thoroughly, and apply as primer.
3. Mix the material (ACM 702 + water + cement + sand = 1 : 1 : 5-10 : 2 - 10) , stir thoroughly, than apply the mortar by spatula.
4. The quantity of water may be adjusted to meet the required consistency.

For patching compound/ flooring/ concrete resurfacing:

Suggested formulation (By weight):

ACM 702	1 Part
Water	1 Part
Portland cement	5 - 10 Parts
Fine sand	10 - 30 Parts

Procedure:

1. The surface to be coated must be clean dry (or slight damp), free from oil and grease.
2. Mix ACM 702 and water (1 : 1-2), stir thoroughly and apply it as primer
Wait until it dry, Mix ACM 702 : water : cement : sand = 1 : 2 : 5 - 10 : 10 - 30 thoroughly and

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apply it on the on top of the primer.

3. The quantity of water may be adjusted to meet the required consistency.

Technical Data

Tensile strength (N/ mm ²)	7-10
Elongation at break	500 - 800 %
Water absorption after 24 hrs immersion in water	9-14%
Resistance to aging	Good
Resistance to light	Good

Health and Safety

Attention must be paid to the normal precautions for handling chemicals and to the measures prescribed in the local health regulations. The workplace must be well ventilated, skin care measures should be adopted and safety goggles should be worn.

The technical information and application advice given in this publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to the suitability of a product for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by commonwealth or State legislation the owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

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