

CALISTO SHIELD COAT

Acrylic Modified Cementitious Polymer

DESCRIPTION

CALISTO SHIELD COAT is a Modified Acrylic Polymer based system, specifically designed for modified Portland cement compositions. Mortar modified with 'CALISTO SHIELD COAT' has improved physical strength, and superior adhesion to old concrete, masonry, brick, and many other surfaces. The dispersion contains an anionic emulsifier system and is free from film forming aids, solvents and plasticizers. The product upon coating gives a tough, hard-wearing surface with waterproofing. Product however allows trapped vapours to escape thus preventing peeling and blister formation.

AREA OF APPLICATION

- Use as a bonding aid for structural repair rendering & profiling of vertical, horizontal & overhead applications
- Suitable for use for surface treatment protecting, waterproofing and repairing concrete and masonry
- Waterproofing of basements, toilets terraces, roofs, swimming pool etc
- General concrete repairs
- Cementitious waterproofing coating

FEATURES

- Imparts improved bond / impact strength
- Increases mortar flexural / tensile strength
- Highly durable in continuous wet condition/ Effective in immersed applications.
- Not affected by UV light or by chemicals (mild acid & alkali)
- Reduces salt penetration into concrete/ Durable & prevents concrete decay.
- Excellent adhesion to most building substrates.
- Increases overall structural durability

SURFACE PREPARATION

Remove all dust, foreign matters, loose materials or any deposits of contamination which could affect the bond between the surface and the Coating by scarifying, grinding, water blasting, sand blasting, acid washing or by any other approved method. New flat surfaces shall be made reasonably smooth so as not to affect the application of Coating and to avoid sharp projections. Treat the depressions, cracks or damaged surface before coating. Pre wet the concrete surfaces at least one hour prior to the application.

METHOD OF USE

1 To repair depressions/ wide cracks on the surface: Mix 1 kg cement with 1.5 kg silica sand and 0.5 kg 'Calisto Shield coat' and level the surface with standard procedure.

2 To be used as coating: 'Calisto shield coat' is to be mixed with neat cement in the ratio of 1:2. The mix has to be stirred thoroughly so that no air bubbles / lumps remain in the mix. Apply the mix by brush on rendered and/or prepared surface. Two or more coats are recommended. First coat should be allowed to dry for 5-6 hours. The surface should be made wet before application in case of porous structures.

3 To be used as bond coat: Clean & wet surface 24 hrs before application. Mix CALISTO SHIELD COAT & Cement 1:1 by volume. Apply single coat & place the mortar while the coat is still wet.

COVERAGE

Approximate coverage for 1 coat ranges between 35-40 Sqft / kg depending on the substrates

PACKING

Calisto Shield Coat is available in 1 kg, 5 kg, 10 kg, 20 kg, 25 kg

STORAGE & SHELF LIFE

Shelf life is 14 months in unopened container. Store away from sunlight and preferably below 30oC.

TECHNICAL PROPERTIES

| | |
|---|-----------------------------|
| Appearance | Free flowing Liquid |
| Colour | Milky White |
| Specific gravity | 1.05 ± 0.03(ASTM D 1644-03) |
| Solid Content % | 25 ± 5 (ASTM D 1475-03) |
| Viscosity (Spindle No: 4; RPM : 20 @ 25°C | 1000 – 1500 CPS |
| Compatibility with all cement / admixture | Good |
| Water permeability | Almost Nil |
| ph | 7-9 |
| Flammability & Toxicity (Dry Film) | None |

HEALTH & SAFETY

Exercise caution and use protective clothing such as gloves and goggles. Inhalation of vapour or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air & if need be start artificial respiration. Give oxygen if breathing is labored & call emergency medical help. In case of eye contact flush with water for 15 minutes and call for medical help. If swallowed will cause nausea, vomiting, and loss of consciousness. Do not induce vomiting rather call for medical help. If contact with skin flush with water/soap & water until all traces are removed. Seek medical attention if required.



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