

TECHNICAL DATASHEET

ASCOSEAL CL

Single Part , Penetrating Crystalline Powder For Waterproofing



PRODUCT INTRODUCTION

ASCOSEAL CL is a single component cement based crystalline waterproofing coating formulated from special additives. Once cured, it becomes a suitable and maintenance free durable waterproof coating for use on concrete, masonry , brick, AAC block, render and plaster substrates. The ensuing chemical reaction is responsible to fill all the micro crack, pores and capillaries with an insoluble crystal formation, which prevents see page and water-borne chemicals from entering, even under high hydrostatic pressure. Cracks that develop during the life- time of the concrete are auto healed by **ASCOSEAL CL**, resulting in the permanent concrete protection.

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KEY FEATURES

1. Waterproofing & coating of drinking water tanks
2. Waterproofing of swimming pools and cooling towers
3. Waterproofing of tunnels, galleries, basements & elevator pits subjected to high water pressure
4. Waterproofing and protection of concrete in water treatment plants, setting tanks, dams, facades, wall faces, AAC blocks and prefabricated panels
5. Waterproofing of thermal power plants

RECOMMENDED APPLICATIONS

1. Excellent waterproofing properties. Withstands both positive and negative hydrostatic pressures
2. It is applicable on wet surfaces
3. It is easy to use and maintenance is required
4. It is resistant to aggressive environment such as seacoasts and zones with atmospheric pollution.

TECHNICAL PROPERTIES (Complies to EN 1015-11, 1015-12 and IS 9165 , ASTM D 5385 , ASTM D 4541)

Appearance	Light grey free flowing powder
Bulk Density	900 ± 100 Kg/l
Mixing Ratio	Vertical - 3 : 2 (Ascoseal CL : Water) Horizontal - 2 : 1 (Ascoseal CL : Water)
Compressive Strength (MPa)	20 (7 Days) ; 40 (28 Days)
Flexural Strength (MPa)	> 5 (28 Days)
Adhesion on concrete (Pull Out) , MPa	≥ 2 (28 Days)
Water proofing behavior (Rain and Negative Pressure)	Nil
Taber Abrasion Resistance (1000 cycles)	0.16
Hydrostatic Pressure Resistance	5 bar Pressure
Recommended Coats	Two (2) coats ; second coat is to be applied after 24 hours

The values obtained are from laboratory testing conditions and at 27 ± 2°C . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.

APPLICATION METHODS:

1. Surface Preparation

The substrate must be clean, dry, sound and free of all contamination such as dirt, oil, grease, gypsum and coatings etc. which hinder an adhesion. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed and treated properly before the application of **ASCOSEAL CL**. New concrete must be allowed to cure for 28 days and cement render and cement screeds must be allowed to cure for at least 7 days prior to the application of **ASCOSEAL CL**. Optimum adhesion, corrosion protection, heat resistance and chemical resistance properties are achieved with recommended surface preparation.

2. Mixing

One part of **ASCOSEAL CL** and three parts of clean water are poured into a clean container in order to produce a mixing liquid. Mixing is best done by mechanical means such as a slow speed mixing drill (400-600 rpm). Small quantities may be mixed manually with a trowel. When mixing manually care must be taken to ensure product is mixed thoroughly. Mix until a thick creamy paste free of lumps is achieved (mixing time about 1 to 2 minutes). Allow the mixture to rest for 5 minutes and then remix briefly prior to application.

3. Precautions

- a) Do not apply on dusty substrates.
- b) Do not use on damp surfaces.
- c) Do not mix it with thinner or solvent.
- d) Do not add cement, sand or any extra additive.
- e) Do not add any aggregate to increase its strength
- f) Do not use below 5°C.

4. Application Method

ASCOSEAL CL can be applied by thick brush or roller or nylon broom or spray or trowel.

- i) Brush: Use a stiff nylon medium bristle brush
- ii) Roller: Use a 3/8" phenolic core roller
- iii) Broom: Use a stiff nylon broom
- iv) Spray: Use air less spray
- v) For decorative finish use a trowel.

5. Curing

Optimum performance level is reached after 7 days.

6. Cleaning

Clean skin with soap and water. Tools and equipment should be cleaned with clean tap water.

7. Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use **ASCOSEAL CL** for storage and application
- ii. If it comes in contact with eyes, immediately wash eyes with plenty of water and seek medical advice.
- iii. Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use. (Material Safety Data Sheets are available through our company's representative or from our ASCOLITE's website)

8. Packaging

Available in available 20 Kg liner bags.

9. Coverage

Brush Application Slurry : $140 \pm 10 \text{ ft}^2 / 2 \text{ Coats}$

Dry Shake : $10 \pm 1 \text{ ft}^2 / \text{Kg}$

9. Shelf Life

12 months from the date of production if stored in original, unopened packaging and in place protected from moisture, sun exposure and frost.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory.