

## TECHNICAL DATASHEET

# ASCOSEAL CL II

Two Component Crystalline Water Impermeable Coating for Positive and Negative Sides

### PRODUCT INTRODUCTION

**ASCOSEAL CL II** is two component crystalline coating formulated from special additives. **ASCOSEAL CL II** is flexible cementitious ionomeric latex system. Once cured, it becomes a suitable and maintenance free durable water impermeable coating for use on concrete structures. The in situ crosslinking chemical reaction is responsible to fill all the micro cracks, pores and capillaries with an water insoluble crystal formation, which prevents water seepage, leakage and water-borne chemicals from entering, even under high hydrostatic pressure. Cracks that develop during the lifetime of the concrete are auto sealed by **ASCOSEAL CL II**, results in the permanent concrete protection and this is not a mineral silicate system.

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## RECOMMENDED APPLICATIONS

1. Water proof coat of basement and below level sites.
2. Waterproofing of un-bonded and floating screeds
3. Waterproofing of tunnels, galleries, swimming pools and 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 very big multi storied structures.

## PRODUCT KEY FEATURES

1. Excellent injection grouting properties. It withstands both positive and negative hydrostatic pressures
2. It is applicable on wet surfaces and low level site.
3. It is easy to mix and use ; no maintenance is required
4. It is resistant to aggressive environment such as seacoasts and zones with atmospheric pollution.
5. It is resistant to aggressive salty environment sites seacoasts and zones with atmospheric pollution.

## TECHNICAL PROPERTIES

**Complies to ASTM D 1475, ASTM D 412 , ASTM D 5385 , ASTM D 790 , ASTM D 1895 A, ASTM D 4541 & ASTM E 96**

<b>Appearance</b>	(a) Powder: Light grey free flowing powder , (b) Liquid : White colored and (c) Mixed system : Grey pasty liquid
<b>Density , Kg/l</b>	1.00 ± 0.05 for powder ; 1.01± 0.01 for liquid 1.65 ± 0.05 for mixed system ( 1.5 part powder & 1 part liquid )
<b>Mixing Ratio ( Powder : Liquid by weight )</b>	1.5 : 1.0
<b>Pot Life ( Minutes )</b>	30 ± 5
<b>DFT ( 2 to 3 coats , Depending on application )</b>	Minimum 700 micron to maximum 1.4 mm
<b>Adhesion to concrete ( Pull Out ) , MPa</b>	> 1.5
<b>Water proofing behavior ( Rain and Negative Pressure)</b>	Nil with 10 bar water pressure
<b>Flexural Tensile Strength</b>	6.5 ± 0.5
<b>% Elongation</b>	25 ± 10
<b>Touch Dry Time ( Hours )</b>	10 ± 2
<b>Foot Traffic ( Days )</b>	2

*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.*

## 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 hinders 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 II**. New concrete must be allowed to cure for 28 days. Cement render and cement screeds must be allowed to cure for at least 7 days prior to the application of **ASCOSEAL CL II**. Optimum adhesion and water proofing properties are achieved with recommended surface preparation only.

## 2. Precautions

- i. Do not apply on dusty substrates.
- ii. Do not use on damp surfaces.
- iii. Do not mix it with thinner or solvent.
- iv. Do not add cement, sand or any extra additive.
- v. Do not add any aggregate to increase its strength.
- vi. Do not use below 10 Deg. C.

## 3. Application Method :

**Part 1 : ASCOSEAL CL II** has to be applied by brush. **ASCOSEAL CL II** application has to be done in two to three coats. The second coating has to be done in perpendicular to first coating. **Part 2 : ASCOSEAL CL II** protection layer has to be finally coated with **ASCOFLEX II** or **ASCOCRETE II** acrylic water proofing membrane for increasing its durability.

## 4. Curing

Optimum water permeability is attained after 7 days of Water sprinkling.

## 5. Cleaning

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

## 6. MIXING

One part of **ASCOSEAL CL II** liquid is to be mixed in one and half parts of powder. Powder part is to be added slowly in the liquid and mix for 3 minutes with slow speed (< 400 RPM) hand stirrer in a clean container in order to produce a homogenous lump free slurry. During manual mixing care must be taken to ensure product is mixed thoroughly. Allow the mixture to rest for 1 minute and then remix for 1 more minute briefly prior to application. Mix the quantity which can be used within 15 minutes.

## 7. Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use **ASCOSEAL CL II** for storage and application
- ii. If come in contact with eyes, immediately wash eyes with plenty of water and seek medical advice because it is an abrasive product.
- 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

**ASCOSEAL CL II 25 Kg. set (15 Kg. bag & 10 lt. jerry can)**

**9. Coverage :** 4 to 8 sq. ft. per Kg. depending on surface type ,i.e. multi level basement, lift pit ,toilet, balcony etc.

## 10. Shelf Life

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



**DISCLAIMER:**

*While the technical details and 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](http://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 results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.*