

## DESCRIPTION

**CARBOSHIELD PS®** is a clear base acrylic monomer sealer with excellent hold and alkali resistance properties.

**CARBOSHIELD PS®** is formulated to be applied as an undercoat for all water base acrylic coating, being highly penetrative, and increase the adhesion and bonding for the post applied water base coating.

## USES

**CARBOSHIELD PS®** is applicable for:

- ☐ Internal and external Dry Walls
- ☐ Cement Plaster
- ☐ Gypsum and cement boards
- ☐ Base coat for pre-applied acrylic base coatings

## ADVANTAGES

- ☐ Highly Penetrative
- ☐ Internal and External application
- ☐ Over coating on Existing coated surfaces
- ☐ Anti Fungal
- ☐ Prevents mildew and efflorescence
- ☐ Solvent free
- ☐ Alkali Resistance properties
- ☐ Allows breathability for concrete surfaces
- ☐ Low Oder
- ☐ Zero VOC

## COMPLIANCE

LEED V4.1 for low emitting material VOC | LEED V4 – 2013 for Building product disclosure and optimization.

## MATERIAL DATA

|             |                                           |
|-------------|-------------------------------------------|
| Type        | Acrylic monomer                           |
| Colors      | Whitish in Liquid From   Clear when dry   |
| Finishing   | Satin to Matt Finish                      |
| Packing     | 5L & 18L cans (UAE) – 1 USG & 5 USG (Leb) |
| Application | Brush, Roll or Airless Spray Machine      |
| Storage     | 24 months at 25°C in dry conditions.      |

## TECHNICAL DATA

| Property                | Value           | Test Method |
|-------------------------|-----------------|-------------|
| Solid By Weight         | 30% + 2         | ASTM D 1353 |
| Specific Gravity        | 0.95 + 0.05     | ASTM D 70   |
| VOC Content             | <5 g/l          | EPA 24      |
| PH Value                | 9-9.5           | ASTM D 624  |
| Elongation              | 100% + 10%      | ASTM D 412  |
| Flash Point             | Nil             |             |
| Application Temperature | Btw 10°C - 40°C |             |

## APPLICATION DETAILS

### Surface Preparation

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. All cracks and pinholes should be filled with Acrylic Base putty.

## APPLICATION

### ➤ High Porosity Surfaces

High porosity surfaces can be tested by spraying water over it. If the absorption was high and dried quickly, **CARBOSHIELD PS®** should be applied with dilution of 50% with potable water

### ➤ Low Porosity surfaces

If the Surface showed a long absorption of water and dryness, than **CARBOSHIELD PS®** should be diluted up to 100%. Prior to application

### ➤ PRE-COATED SURFACES – TOP COAT application

**Surface preparation:** all pre-coated surfaces being of water base Nature should be Cleaned using water jet. Once cleaned it should be left for 24 hours drying period, prior to commencing with **CARBOSHIELD PS®**.

**Coats:** Depending on the absorption of the Pre-coated surface, **CARBOSHIELD PS®** should be applied in 1-2 coats with 4-6 hours recoating period

## MIXING PROCEDURE:

- ☐ Mix **CARBOSHIELD PS®** using a slow speed mixer for 1 min to achieve a homogeneous flow

## DILUTE

Dilute **CARBOSHIELD PS®** with 50-100% Potable Water depending on the porosity of the surface.

## RECOMMENDED FILM THICKNESS & SPREADING RATE

- ☐ 10-20 microns per coat
- ☐ 7-9m<sup>2</sup> per 1liter depending on the porosity of the surface

## DRYING & CURING

- ☐ Touch Dry: 30 min to 1 hour
- ☐ Hard Dry: 24 hours @ 25°C
- ☐ Recoating period: 4-6 hours @ 24°C

Note: Drying period will be affected with relative humidity variation and weather temperature.



## SAFETY

### Protection Measures

**CARBOSHIELD PS®** is waterborne and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- ☐ Splashes to skin must be washed off with water and Soap
- ☐ Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

### Remarks

Empty cans should be disposed as per the rules and regulations of the country where the material is used. And in **NO case** should empty cans be used for food stuffing.

WATER BASE PRIMER / SEALER

## Important Notice:

*The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.*