

DESCRIPTION

SHIELDEMULSION 50® is an interior Wall and ceiling emulsion coating with excellent color stability and satin touch. Being highly washable, Dust resistant and Highly durable, **SHIELDEMULSION 50®** can be applied on most surfaces some of which are cement Plaster, cement board, bricks and wood surfaces.

USES

SHIELDEMULSION 50® is suitable to be applied over:

- ☐ Internal Residential Apartments
- ☐ Internal Commercial Areas

ADVANTAGES

- ☐ Highly washable
- ☐ Excellent durability
- ☐ Over coating on Existing coated surfaces
- ☐ Excellent hiding power
- ☐ Anti Bacterial properties
- ☐ Solvent free
- ☐ Low Oder
- ☐ Low VOC

COMPLIANCE

LEED V4.1 for low emitting material VOC | LEED V4 – 2013 for Building product disclosure and optimization. TT-p-2119 Class A, TT-P-1728A and TT-P-29J

MATERIAL DATA

Type	Acrylic Copolymer
Colors	White & Off-white Specialty colors are upon request From (RAL color cards)
Finishing	Flat Finish
Packing	1 USG & 5 USG
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	45% + 2	ASTM D 1353
Specific Gravity	1.45 + 0.05	ASTM D 70
VOC Content	<10 g/l	EPA 24
PH Value	8-9	ASTM D 624
Elongation	100% + 10%	ASTM D 412
Flash Point	Nil	
Application Temperature	Btw 10°C - 40°C	

SUITABLE PRIMERS

- ☐ **PRIMESHIELD 50®** for New and Old concrete and cement base surfaces
- ☐ **PRIMEUNDERCOAT 4060®** for wood and Steel surfaces

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

➤ NEW CONCRETE SURFACE

Priming Stage: Apply one coat of **PRIMESHIELD 50®** or **PRIMEUNDERCOAT 4060®** and allow for 8-24 hours drying and recoating period

Initial coat: Apply 1 Coat of **SHIELDEMULSION 50®** at a rate of 25-38 microns per coat Diluted with 25-30% water and allow for 2-4 hours prior to recoating

Final coat: Apply the final coat using **SHIELDEMULSION 50®** at a rate of 25-38 microns per coat Diluted with 25-30% water and allow for 25 hours curing period.

Note: if Recoating is required or needed, follow the same step of the initial coating stage

➤ PRE-COATED SURFACES

Surface preparation: all pre-coated surfaces should be sanded properly to achieve a flat and non gloss surface.

After sanding, clean the surface using detergents, after which you have to remove all traces of detergents using clean water only, followed by drying the surface with clean cloth.

Priming Stage: Apply one coat of **PRIMEUNDERCOAT 4060®** and allow for 8-24 hours drying and recoating period.

Initial coat: Apply 1 Coat of **SHIELDEMULSION 50®** at a rate of 25-38 microns per coat Diluted with 25-30% water and allow for 2-4 hours prior to recoating

Final coat: Apply the final coat using **SHIELDEMULSION 50®** at a rate of 25-38 microns per coat Diluted with 25-30% water and allow for 25 hours curing period.

Remark: if the pre-coated surface is of dark color, it might require applying 1-2 additional top coats

MIXING PROCEDURE:

- ☐ Mix **SHIELDEMULSION 50®** using a slow speed mixer for 1-2 min to achieve a homogeneous flow

DILUTE

Dilute **SHIELDEMULSION 100®** with 25-30% Potable Water

RECOMMENDED FILM THICKNESS & SPREADING RATE

- ☐ 25-38 microns per coat
- ☐ 50-60m² per 1US Gallon depending on the porosity of the surface

Note: 1USG = 3.78Liters

DRYING & CURING

- ☐ Touch Dry: 30 min to 1 hour
- ☐ Hard Dry: 24 hours @ 25°C
- ☐ Recoating period: 2-4 hours @ 24°C

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

SAFETY

Protection Measures

SHIELDEMULSION 50® 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 COATING

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.