TECHNICAL DATA FOR BS SMARTPRIME EP

Waterborne 2K Universal Primer based on Hybrid Epoxy Polyamides Technology

Description for BS SmartPrime EP

BS SMARTPRIME EP is a two-component waterborne priming & sealing system based on hybrid epoxy polyamides technology for application of Acrylic, Epoxies & Polyurethane final top coats and screeds. It is applicable for floor toppings even in case of ceramic tile substrates. BS SMARTPRIME EP creates a harmonious anchoring and compatibility between various top coats and the substrates for a long lasting performance.

Advantages of BS SmartPrime EP

BS SMARTPRIME EP has following advantages

1. Excellent adhesion to various substrates such as concrete, stone, wood, brick, tiles and metal surfaces.
2. Low exothermic & long pot life
3. Easy penetration in substrate due to low viscosity
4. Capability to cure in moist condition
5. Low VOC and comfortable to work for long hours
6. Quick drying

Application of BS SmartPrime EP

BS SmartPrime EP can be applied for following uses

1. As a high performance primer system for Epoxy / Polyurethane coating & synthetic screed flooring system
2. Adhesion promoter of thin renders or refurbishment covers on old surfaces
3. Sealing system for medium sized dry & wet cracks
4. As a primer in areas where solvent borne primers are unsuitable due to smell or fire hazards.
5. As a primer for cementitious underlays & acrylic putties

Application advice for BS SmartPrime EP

Surface Preparation for various substrates

Steel / Metal : The surface should be sand blasted to or sanded with metal brush tools before application of priming system to SA 1 or 2.

Concrete: Surface should be cleaned with metal wire brushes and properly dusted using high speed air blower. Any cracks, potholes, expansion joints should be properly repaired before the application of BS SmartPrime EP. Clear all foreign matter such as dirt, dust, grease, laitance, mortar droppings, loose & flaking material. Moss & fungus must be removed using suitable fungicide solution or bleach or dilute HCL solution, thereafter wash thoroughly with water

Tiles: Ceramic tile should be grinded 0.5mm to 1mm before application of BS SmartPrime EP.

Wood: Wooden or plywood surfaces need to be light sanded and made dust free before application of BS SmartPrime EP priming system. Any potholes & cracks should be repaired with wooden dust putty made using BS Epoxy 611 or similar system.

Essential Data for BS SmartPrime EP

Properties	Unit	Resin	Hardener
Type	Part	Epoxy Resin Component	Hardener Component
Appearance	Visual	Milky White Liquid	Brown Liquid
Viscosity - 25ºC by DIN 4 mm cup	Sec	30-55	10-55
Solids Content (1.5g/105ºC/2h)	%	55-65	17-19
Drying Time Mixed & Applied	hrs	4 to 6 hours	
Shelf Life	Months	12	

Buildsmart Construction Chemicals Pvt Ltd an ISO 9001-2000 & ISO 14000 Certified Company

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Using BS SmartPrime EP

1. Mix the two components in 1:2 proportion using low speed mechanical stirrer for 2 to 3 minutes
2. Add Water 2 parts to the mixed Resin & Hardener
3. Never add water before to resin or hardener part separately.
4. Apply the coating using brush or roller to cover entire surface properly.
5. Drying Times @30ºC
    a. Touch Dry : 2 hours
    b. Recoating : 8 to 12 hours
    c. Hard Dry : 12 to 16 hours
6. Touch Dry : 60 minutes
7. Pot Life : 45 minutes @30ºC
8. Cleaning of Tools:
9. Tools and equipment contaminated with liquid BS SmartPrime EP should be cleaned with water when in uncured state. Cleaning should be done before it starts to gel or harden
   If the material has cured or gelled it can only be mechanically removed.

Cured Film Properties

Properties	Test	Unit	Value
Dry Film Thickness	-	Micron	50-70
Tensile Strength	ISO 527	MPa	23
***Consumption for 2 Coats on concrete**	-	M_2/kg	3 to 5

*Consumption will vary as per surface condition.

Safety and Handling:

Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.

Storage and Shelf Life:

All Chemical products should be stored in well ventilated place. The area of storage shall be covered protecting the material from direct sunlight. The shelf life of these products shall be **one year** from the date of manufacture in sealed unopened container.

Disclaimer:

This information is intended only for general guidance in the application of our product. It has been obtained by careful investigation and represents the present state of our knowledge and experience. Because of the large number of possible methods of application and processing we are not able to assume responsibility in any one particular case for either the technical results or the patent rights situation applicable to the country under consideration.

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