

PRODUCT CODE – BASE - 6C12, HARDENER - 6C13

SmartCare BarrierX 2K

Asian Paints SmartCare BarrierX 2K is a hybrid epoxy modified two component coating for negative side waterproofing application. This product offers superior mechanical properties and is designed to be applied on walls, ceilings & basements where the substrate has 100% moisture or is in damp condition.

PRODUCT FEATURES:

- Uniform, seamless, advanced waterproof sealing layer.
- Easy to apply with trowel.
- Superior adhesion on concrete, masonry wall substrates.
- Can be applied on horizontal as well as vertical surfaces.
- Very high Tensile strength.
- Excellent early and final mechanical properties.
- Good chemical resistance.

AREA OF APPLICATION:

- Basements, Ceilings & Walls (Negative Side)

DIRECTION OF USE:

SUBSTRATE PRECAUTION:

- Concrete substrates: Substrate must be dry, clean, free of grease, loose particles & dust etc. If necessary, clean the surface with water jet spray to remove all the dust/sand particles. Substrate compressive strength should be at least 20 MPa, and cohesive bond strength at least 1.5 MPa. New concrete structures need to be cured for at least 28 days before application of the waterproofing system. Prepare the concrete surface using concrete surface grinder/wire brush. Any existing cavities and cracks in concrete should be filled with the appropriate repairing materials in advance. Clean the area with water to remove any dust / sand. Remove the existing efflorescence from the substrate fully before application with wire brush.

TOOLS REQUIRED FOR APPLICATION:

- Mechanical Stirrer
- Weighing Balance
- Putty Knife, Sandpaper/ Surface grinder(mechanical)
- Moisture Meter.

APPLICATION PROCEDURE:

- Check the site area for dampness, no live leakage should be present on the wall; live leakages need be stopped by using SmartCare PU Injection grouts / other suitable method such as SmartCare instant Leak Stop. Please consult our technical experts for more information.
- Wall should be in good condition i.e. strong enough for application.
- Material Mixing – Measure BASE and HARDENER by weighing balance (1:1 proportion) or take premeasured pack quantity and add in a clean plastic bucket, mix well with mechanical stirrer to get a homogeneous mix.
- Take the mixed material on putty knife and apply over the substrate as per the specified coverage. Ensure that there is no void or gap left during the application. Levelling should be done immediately, before hardening of the material.
- Apply 2nd coat, perpendicular to 1st coat and ensure the material covers all area [min overcoating interval of 6-8 hrs/ max overcoating interval 24hr].
- Ensure forced coverage of 7-10 sq.ft /kg in 2coats. If at the end you find some moisture, recoat with a thin coat of SmartCare BarrierX 2K
- Cement Putty/ Acrylic Putty application can be done over the coated surface after 24 hrs of drying.

TYPICAL TECHNICAL DATA

PARAMETERS	ASTM / TEST STANDARDS	BASE	HARDENER
Appearance		Viscous Liquid	Viscous Liquid
Shade		Dark Grey	Black
Mixed Density @25°C		1.55 – 1.65 g/cc	
Hard Dry @25° C		8-12 Hr	
Dry Film Thickness		0.8 – 1mm**	
Pot Life @25° C		Minimum 30 minutes	
Hardness (Shore D)	ASTM D2240	>50	
Solid Content	ASTM D 1644	>90%	
Resistance to water pressure (Negative side)	ASTM D 7088	Passes >10 Bar	
Tensile Strength, 14 Days	ASTM D 2370	> 10 MPa	
Pull of adhesion	ASTM D 7234	4±1 MPa*	

Shelf Life		12 months
Typical consumption		7-10 sqft/kg in 2 coats**on concrete surface

Note: All values mentioned above are obtained under control lab conditions.

*Pull-off Adhesion values applicable for concrete surface and mode of failure is substrate failure not adhesion failure.

**Consumption and corresponding DFT values may vary depending on the surface porosity/surface profile.

PRECAUTIONS:

- SmartCare BarrierX 2K can only be applied on masonry or concrete surface. Existing putty + paint coating needs to be removed completely before the application. New masonry/concrete surface must be fully cured before the application.
- SmartCare BarrierX 2K cannot be applied on loose or hollow masonry surface/concrete substrate.
- Surface to be levelled and grinded, cleaned with water jet spray before the application of SmartCare BarrierX 2K.
- SmartCare BarrierX 2K can be applied over hairline cracks <500 Microns. Visible & Structural cracks need to be repaired first before the application of Smart Care Damp Seal 2K
- Application area must be well ventilated. The application temperature must be within 5°C – 45°C.
- Pot life / Curing time may vary in high/low temperature.
- SmartCare BarrierX 2K, needs to be applied within 30 minutes of mixing both components. Higher or lower temperature may affect the workability. Time interval between 2 coats of Smart Care BarrierX 2K should not exceed 3 days.
- The technical parameter shared are typical values obtained in a controlled lab test.

STORAGE & HANDLING:

Store the material in a cool, well ventilated place, away from direct sunlight or any source of ignition and fire. Keep it away from the reach of children.

HEALTH & SAFETY PRECAUTIONS:

Wear protective gloves, goggles, and nose masks while handling and using the material. In case of contact with skin and eyes wash thoroughly with plenty of water. In case of ingestion and inhalation remove the personnel to fresh air. Seek medical advice in all the above cases. The disposal of excess or spilled material shall be carried out in accordance with local regulations.

Disclaimer:

This information given in good faith and to best of our knowledge is based on results gained from experience and tests. Whereas Asian Paints Ltd endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot accept any liability arising from the use of products since the conditions of use are beyond its control whether or not in accordance with any advice specifications, recommendation or information given by it.