

PRECAUTIONS:

Mix Bio-Shield Putty with 45% of clean potable water.

Mixing of Bio-Shield Putty is very important, hence extreme care is to be taken for proper & thorough mixing with hand or mechanical stirrer in order to get the desired best results in terms of smoothness & coverage. Mixing is to be continued till a uniform paste is formed.

Only a required quantity of Bio-Shield Putty mix should be prepared which can be used within three and half hours.

- Birla white Bio-Shield Putty should be kept out of reach of children.
- It is harmful if swallowed. In case of ingestion, seek immediate medical attention.
- If irritation develops or persists with the skin, wash it immediately with plenty of water and get medical attention quickly.

Do's:

- Ensure loosely adhered/dirt-free wall surface.
- Stir well before use.
- Store in a cool & dry place.
- Wear safety goggles during application. In case you make contact with your eyes, rinse them immediately with plenty of water & seek medical advice.
- It is recommended to wear a suitable nose mask during sanding & surface preparation to avoid dust inhalation.
- Birla White Bio-Shield Putty should be kept out of reach of children.

Don'ts:

- Don't apply Birla White Bio-Shield Putty directly on loosely adhered/dirt wall surface.
- Don't add excess water than prescribed.



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BIRLA WHITE BIO-SHIELD PUTTY DEEWARON PE LAGAYEIN, SAFEDI AUR SURAKSHA DONO PAAYEIN



INDIA'S FIRST ANTI-VIRAL PUTTY

DEEWARON PE LAGAYEIN, SAFEDI AUR SURAKSHA DONO PAAYEIN



**KILLS
99.9%
BACTERIA &
VIRUSES**



Birla White Bio-Shield putty is India's first Anti-viral Putty and premium quality white cement-based polymer-modified putty, with Anti-viral & Anti-microbial properties. It offers a safe & hygienic putty surface along with ultimate whiteness to your walls, in order to enhance the performance of topcoat emulsions, giving your walls a marble-like finish with protection from germs.



**Excel Putty with
Germ Protection**



**Silver ION
Technology**



**Anti-viral, Anti-bacterial,
Anti-fungi, Anti-algae**



**Tested by NABL
Approved Lab**

REQUIRED TOOLS

- A mechanical stirrer should be used for homogeneous mixing.
- Putty blade/spatula & gurmala, for the application work.

SCOPE OF APPLICATION

This product can be applied on the interior/exterior surface like cement-based plaster/concrete/mortar walls & ceiling surfaces up to 1.5 mm thickness in two coats. This product is having curing-free property.

STEP 1 - SURFACE PREPARATION

Before applying Birla White Bio-Shield Putty, remove all the loosely adhering material like dirt, dust, organic solvent (de-shuttering/curing-free compound), oil, etc. from the surface by using emery paper, a putty blade, or wire brush. The substrate should be clean, free from dust, organic solvent, and loose materials

STEP 2 - MIXING OF BIRLA WHITE BIO-SHIELD PUTTY

Slowly add 1 kg of Birla White Bio-Shield Putty with 45% clean water (1 Kg Bio-Shield putty+ 450 ml water) to make a paste. Preferably, mixing of putty and water should be carried out by a mechanical stirrer for 3-5 minutes. If not, you can use a metallic rod and mix vigorously for 10-15 minutes manually to get more coverage. Once done, leave the paste for 5 minutes after thorough mixing to get the best results. Make sure to prepare a quantity that can be used within 3-3.5 hours.

STEP 3 - APPLICATION OF BIRLA WHITE BIO-SHIELD PUTTY

Since Birla White Bio-Shield Putty is pre-wetting-free, pre-wetting of the substrate is not required before the application of the Bio-Shield Putty. This is how you can apply:

- After thoroughly mixing Bio-Shield Putty, apply the first coat on the wall/substrate surface uniformly with the help of a putty blade. Ensure that during the application, the substrate surface temperature should not exceed 40 degrees centigrade.
- After drying the first coat of Bio-Shield Putty, rub the surface gently with a wet sponge or putty blade in order to remove the loose particles.
- Allow the surface to dry for at least 3 hours & then apply a second coat of Bio-Shield putty. Once done, leave the surface to dry completely.
- Leave the surface to dry for preferably 10-12 hours before the application of topcoat paint/distemper.
- It is not recommended to rub the Bio-Shield Putty surface of the final coat strongly with rough emery paper; this will break the water repellency properties of the putty. However, if at all there is a need to remove unevenness/patches before applying any kind of paint/distemper, gently level the surface with an extremely fine waterproofing emery paper of not less than 500 numbers, to get a glossy white surface.
- The total thickness of both the coats should be limited to a maximum of 1.5 mm.

TECHNICAL SPECIFICATIONS

S.No.	Technical Parameter	Specifications	Typical Range
1.	*Coverage (square metre / kg/ Two Coat) [On Ideal smooth surface]	1.67-1.95	In-house
2.	Pot life (Hours)	3.0-3.5	In-house
3.	Tensile Adhesion strength @28 days (N/m ²)	≥ 1.1	EN 1348
4.	Water Capillary Absorption (ml), 30 min @28days	≤ 0.60	Karsten Tube
5.	Compressive strength @28 days (N/m ²)	3.5-7.5	EN 1015-11
6.	Bulk Density (g/cm ³)	0.8-1.0	In-house

* This value is on smooth surfaces. However, this may change according to the surface texture.