



## Berger Paints Bangladesh Limited

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### PRODUCT DATA SHEET

#### PowerBond SH PLUS

PowerBond SH Plus is a premium quality synthetic resin based self-hardening adhesive with superior bonding strength, water resistance and very fast setting Adhesive. It is based on a polymer of Polyvinyl Alcohol and Vinyl Acetate Monomer with water as a dispersed medium and stabilized by suitable surfactants. PowerBond SH Plus is cure by allowing the water to evaporate or be absorbed by the substrate after application. It is specially formulated with high resin content for woodworking.

#### TECHNICAL DATA:

Appearance	White Paste
Color	Milky White
Smell	Characteristic smell
pH value	5.0 - 7.0
Viscosity at 30 °C	(25,000 ± 35,000) cps
Specific Gravity	1.060 ± 0.020
Finish	Smooth
Flow	Good
VOC	Low VOC.

#### FEATURES AND BENEFITS:

- Very fast setting adhesive
- Non-hazardous, Non – flammable, Solvent free
- Excellent bonding strength on all types of wood
- High degree of water resistance
- Superior spread ability, higher coverage
- Extremely low VOC content. Complies with VOC requirement
- Long Storage life
- Water based – environmentally friendly

#### Use:

- All types of woodworking and wood related products.
- It is suitable for Plywood, Particleboard; block board/hard board, MDF as well as handicraft based on wood and paper products.
- For surface bonding (Veneer on hardboard, MDF, Plywood etc.)
- Also ideal for craftwork.

#### APPLICATION GUIDELINES:

- Substrates to be bonded should be clean and free from moisture, dirt, oil and other contaminants. Remove loosely bound materials by abrading with sand paper. New surface must be dried properly and make sure that the surface is free from moisture.
- Stir the contents of the container before use.
- Apply thin coat of adhesive on both side for hardwood and on one side for soft wood.
- Press firmly both the surfaces until glue is wet.
- Position the pieces carefully, since a strong bond is made instantly upon contact.
- Use uniform pressure. Use maximum possible pressure without damaging the substrates.
- To get best performance, bonded surfaces are to be kept under pressure for 24 hrs. Curing time of 72 Hrs. It is also depends on humidity and environment.

- If required, pressure can be released after 2-3 Hrs and the bonded assembly can be put to use.
- Do not use tools that contain iron (risk of discoloration).

**COVERAGE:**

Approx. (60 ± 5) Sq. ft/kg, it is depends on porosity of the surface

**PRECAUTIONS:**

- Storage conditions should be maintained as per prescribed guideline.
- Thinning the adhesive is not recommended.
- Skin formation if any, should be removed from the surface before use.
- Clean water or use warm, soapy water to clean wet adhesive from brushes, spatula.
- Keep adhesive container closed tightly when not in use.

**SHELF LIFE:**

In unopen original packaging shelf life is up to 12 months from the date of manufacturing, if stored in cool, dry conditions, protected from direct sunlight.

**HANDLING:**

Transport & storage should be performed under shade, cleaned & closed area and away from heat sources at all time. Use PPE (Hand gloves, Goggles, Cleaned cloth & shoe etc) during filling and transfer to prevent human contact with product. Product's transfer should be performed in clean & properly sanitized transfer lines and pumps.

**STORAGE:**

Store in sealed container (LDPE container or SS container) in dry condition at temperatures between (15 – 35) °C, away from direct heat, sunlight, dust, moisture any sort of chemical's contamination. Equipment used in handling this product can be washed easily with water before it dries up. Hot water with little scrubbing is required to clean the dried product. Containers once opened should be consumed immediately and shut tightly to prevent contamination. Sanitize with sanitization solution after cleaning of used up containers. Stocks should be used on first in and first out basis. Do not mix with other products without consulting R&D or do your test to determine its suitability, as it can lead to incompatibility and other related problems.

**HEALTH & SAFETY:**

Product safety data sheet must be read and understood before use. These are available on request. It is recommended to wear protective gloves, eye protector etc. Hands and forearms should be thoroughly washed with soap and warm water at the end of working day.

**NOTE**

*We recommend that before using our product, the customer should make his own tests to determine the suitability of the product for his own purpose under his operating conditions. As the circumstances under which our product is stored, handled and used, are beyond our control, we cannot assume any responsibility for their use by the customer.*

Specifications are subject to change. Current specification is available and can be provided on request.

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