Technical Data Sheet

BC Vinyl Adhesive

High-Performance Acrylic Adhesive for Vinyl Flooring

1. Product Description

BC Vinyl Adhesive is a high-tack, water-based acrylic adhesive designed for permanent installation of all types of vinyl flooring, including vinyl sheets, planks, and tiles. It provides an exceptionally strong, water-resistant bond and exhibits high residual tack to minimize bubbling and peaking.

The product is formulated as a Very Low VOC (VLVOC), solvent-free adhesive suitable for both commercial and residential applications and safe for use in enclosed workspaces.

2. Recommended Uses

BC Vinyl Adhesive is recommended for:

- Vinyl sheet flooring (commercial and residential)
- Vinyl tiles and planks
- PVC-backed floor coverings
- Composite board and timber substrates
- On-grade concrete and cementitious screeds

3. Features & Benefits

- Excellent adhesion to concrete, timber, and composite boards
- High initial grab and strong residual tack minimizes peaking or bubbles
- Non-staining formulation with excellent plasticizer resistance
- Solvent-free and low odor—safe for indoor applications
- Easy to apply and clean up with water before curing
- Maintains bond strength under a wide range of temperatures
- Water-resistant bond suitable for humid and interior environments
- Ready-to-use single-component adhesive

4. Technical Data

Property	Typical Values	Test Method / Remarks
Appearance / Color	White thixotropic paste	Visual
Base	Pure acrylic water-borne polymer	—
Solids Content	~70%	ASTM D2369
Density (SG)	1.13 – 1.18 kg/L	ASTM D1475
Viscosity	High tack, trowel able paste	—
Maximum Service Temperature	+60°C	ASTM D2485
Flash Point	Not applicable (water-based)	ASTM D93
Open Time	20 – 30 minutes @ 25°C, 50% RH	ASTM D4498
Cure Time	24 hours (full bond after 48 hours)	—
VOC Content	Very Low (VLVOC)	ASTM D3960
pH Value	7 – 8	ASTM E70
Cleaning	Water (wet), solvent HA (tools)	—

5. Surface Preparation

- Ensure the substrate is sound, smooth, clean, dry, and free from dust, grease, wax, paint, sealers, or other contaminants that may impair adhesion.
- Do not apply on substrates that have been chemically cleaned.
- New concrete or leveling compounds must be fully cured and dry before application.

- Substrate preparation and installation must comply with AS/NZS 2455 or equivalent standards.

6. Application Guidelines

Environmental Conditions

- Substrate and ambient temperature: 10°C to 35°C
- Relative humidity: 30% to 75%
- Maintain these conditions for 48 hours before, during, and after installation.

Application Method

1. Stir BC Vinyl Adhesive before use.
2. Apply adhesive evenly with a notched trowel suitable for vinyl flooring.
3. Allow adhesive to become tacky before laying flooring (open time 20–30 minutes).
4. Place vinyl into the adhesive bed and roll with a 50 kg roller to ensure full contact.
5. For re-bonding, apply pressure or re-roll as required.
6. Do not thin the adhesive.

Clean-Up

- Clean tools and spills with warm soapy water while the product is still wet.
- Cured adhesive must be removed mechanically.

7. Coverage

- 5 – 6 m^2 per liter (depending on trowel type, substrate porosity, and floor finish).

8. Packaging

- 20 kg plastic pail

9. Shelf Life & Storage

- Shelf Life: 12 months from the date of manufacture.
- Storage Conditions: Store in tightly sealed original containers at 5°C to 30°C.
    - Do not freeze.
    - Protect from direct sunlight, heat, and moisture.
    - If stored beyond shelf life, consult BCI technical department before use.

10. HEALTH & SAFETY

- Water-based, non-flammable, and solvent-free adhesive.
- Avoid contact with skin and eyes; wash with water if contact occurs.
- Use protective gloves and eyewear during application.
- Ensure adequate ventilation during indoor use.
- Refer to the Material Safety Data Sheet (MSDS) for complete safety information.