DURAVEX Paints

TECHNICAL DATA SHEET (TDS)



Duravex BondPro Bonding Liquid is a high-performance, water-based bonding and keying additive formulated to improve adhesion, cohesion, and intercoat bonding on cementitious substrates. Based on a modified acrylic polymer dispersion, BondPro functions as a surface primer, bonding aid, and keying agent for use beneath liquid-applied waterproofing membranes, coatings, screeds, plasters, and repair mortars. It enhances surface wetting, reduces substrate suction, and promotes reliable mechanical and chemical adhesion. BondPro is suitable for both interior and exterior applications and is compatible with a wide range of water-based coating and waterproofing systems.

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BONDPRO

KEY PROPERTIES

- Water-based, low-odour formulation.
- Improves adhesion and intercoat bonding.
- Reduces surface suction and porosity.
- Enhances cohesion of cementitious systems.
- Easy to apply and water-cleanable.
- Compatible with most water-based coatings and waterproofing products.
- Non-flammable under normal storage and application conditions.

PRODUCT USES

BondPro Bonding Liquid is recommended for use as:

- A bonding agent between cementitious substrates and coatings.
- A keying additive to improve adhesion of subsequent layers.
- A surface primer to reduce porosity and excessive suction.
- An admixture for cementitious slurries, screeds, and repair mortars where polymer modification forms part of the designed system.

Typical substrates include:

- Concrete (new or aged).
- Cement screeds and toppings.
- Fibre-cement boards.
- Brickwork and masonry.
- Plastered surfaces.
- Previously painted surfaces (sound and well-adhered, after cleaning).
- Cementitious waterproofing and repair systems.

TECHNICAL INFORMATION

Physical Form:	Liquid
Colour:	Milky white (dries clear)
Chemical Base:	Acrylic polymer dispersion
Total Solids Content (TSC):	± 11%
Viscosity:	± 100 cps (≈ 46 KU)
pH:	± 9.0 – 9.5
Specific Gravity:	± 1.00
Flash Point:	Not applicable (water-based)
Water Solubility:	Fully miscible

APPLICATION & SURFACE PREPARATION

1. SURFACE PREPARATION

Correct surface preparation is essential to achieve optimum adhesion and performance.

All substrates must be:

- Structurally sound and stable.
- Clean, dry, and free from dust, laitance, oil, grease, curing compounds, and loose material.
- Free from algae, mould, or efflorescence.

Highly absorbent substrates should be assessed prior to application. Where there is uncertainty regarding compatibility, a test patch is strongly recommended.

2. APPLICATION METHODS

2.1 As a Surface Bonding / Keying Coat.

- Apply BondPro by brush, roller, or spray.
- Apply evenly to form a continuous film.
- Allow to dry tacky or fully dry, depending on the subsequent system specification.

2.2 As a Cementitious Slurry / Admixture

- Mix BondPro with clean water and cement in accordance with the specified system or method statement.
- Use immediately after mixing.
- Do not over-dilute.

3. DRYING & CURING (AT 23–25 °C)

Stage	**Typical Time**
Touch dry:	± 30 – 60 minutes
Overcoating (water-based systems):	± 1 – 4 hours
Full cure:	± 24 hours

Drying times are dependent on temperature, humidity, substrate condition, and film thickness.

4. COVERAGE

- Approximately 8 – 10 m² per litre per coat, depending on substrate porosity and application method

5. APPLICATION CONDITIONS & LIMITATIONS

- Do not apply if rain is expected before drying.
- Do not apply to frozen, damp, or condensation-affected substrates.
- Do not apply when ambient or surface temperatures are below 5 °C or above 35 °C.
- Protect freshly applied BondPro from rain and contamination.
- Not suitable for permanent immersion without a compatible overcoating system.

6. CLEANING OF EQUIPMENT

- Clean all application equipment with clean water immediately after use.
- Dried material may require mechanical removal.

7. SHELF LIFE & STORAGE

- Shelf life: ± 12 months when stored unopened.
- Store in a cool, dry place away from direct sunlight.
- Protect from frost.
- Keep containers tightly sealed when not in use.

8. HEALTH, SAFETY & HANDLING

- BondPro is water-based and classified as low hazard under normal use.
- Avoid prolonged skin contact and splashing into eyes.
- Use appropriate personal protective equipment where necessary.

For detailed health, safety, handling, storage, and disposal information, refer to the relevant Safety Data Sheet (SDS).

9. IMPORTANT ADVISORY

BondPro Bonding Liquid is intended to function as a bonding and keying agent within a compatible system. Final performance is dependent on substrate condition, surface preparation, application method, environmental conditions, and the suitability of subsequent coatings or systems.

10. DISCLAIMER

The information contained in this Technical Data Sheet is based on laboratory testing, industry knowledge, and practical application experience and is provided in good faith as a general guide.

Product performance is dependent on factors beyond the manufacturer's control, including substrate condition, surface preparation, application method, environmental conditions, and workmanship. No guarantee or warranty of performance or suitability for any particular purpose is given or implied.

The manufacturer shall not be liable for any direct, indirect, incidental, or consequential loss or damage arising from the use or application of this product. Product specifications may be amended without prior notice. It is the responsibility of the user to ensure that the latest version of this Technical Data Sheet is consulted prior to application.

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