

Product Data Sheet

CasTech Bond PVA

Nov-2025, Ver. 01.01



Multi-Purpose Adhesive & Bonding Agent

DESCRIPTION

CasTech Bond PVA is a general purpose bonding agent based on polyvinyl acetate polymer emulsion, and an additive for mortar.

STANDARDS

ASTM C 1059 Type 1, BS 5270-1.

TYPICAL USES

- Bonding agent for cement screeds, renders, plasters and concrete repair mortar
- Adhesive for a wide range of substrates including concrete, masonry, brick, glass, terrazzo and wood
- Bonding agent for granolithic toppings to sub-concrete
- Additive for cementitious mortars, tiles and screeds
- Surface sealer for concrete and floors

ADVANTAGES

Key advantages:

- Excellent bonding to concrete, masonry, brick, plaster and wood
- Increases tensile and flexural strength of screed and mortar
- Enhanced corrosion protection
- Excellent water resistance
- Suitable for internal and external application in conjunction with cement
- Environment friendly, non-toxic and chloride free

TYPICAL PROPERTIES

Appearance	Milky White Liquid
Specific Gravity (ASTM D 1475)	1.02 ± 0.02
Compressive Strength (ASTM C 109)	10 – 15% increase over control
Flexural Strength (BS 6319-3)	5 – 10% increase over control
Tensile Strength (BS 6319-7)	5 – 10% increase over control
Tensile Bond Strength (ASTM C 932)	> 1.0 N/mm ² at 28 days
Slant Shear Bond Strength (ASTM C 1042)	> 2.8 N/mm ² at 28 days

SURFACE PREPARATION

The surface should be clean, free from standing water and all contaminants such as oil, grease, laitance, paint and

corrosion. Any contamination should be removed by mechanical means to produce a sound substrate. Wash the surface with clean water and remove all dust. Concrete surfaces should be thoroughly soaked prior to application to ensure a saturated surface dry condition.

MIXING

As a bonding agent: CasTech Bond PVA can be used directly on most construction substrates. Alternatively, mix with clean water and cement in the ratio 1:1:1 by weight to make a bonding slurry coat. Stir **CasTech Bond PVA** well and apply by brush, roller or spray, spreading evenly over the entire surface. Place the material to be bonded while **CasTech Bond PVA** is still tacky.

As a mortar additive: mix **CasTech Bond PVA** with water in 1:1 proportion and add to the cement mortar to obtain a smooth consistency.

APPLICATION

As a general adhesive: bonds concrete, bricks, plaster board, carpets, stone tiles, wood, polystyrene, etc. Apply a thin coat of **CasTech Bond PVA** to both faces, allow to become tacky, bring the surfaces together and position as required. Wipe off excess material and allow to set for 24 hours.

As a bonding agent for screeds and plaster: apply a sealer coat of 1 part **CasTech Bond PVA** to 3 parts clean water and allow to dry. Then apply a bonding coat of **CasTech Bond PVA** and place screeds or plaster while it is still tacky.

As a concrete repair mortar: prime the surface with **CasTech Bond PVA** and allow to become tacky. Prepare a 1:2 cement/sand mix gauged with 1 part **CasTech Bond PVA** mixed with 3 parts clean water, and apply to the primed, tacky surface.

As an additive for tile bedding mortar: pre-wet the concrete surface. Prepare bedding mortar using cement and fine sand gauged with 1 part **CasTech Bond PVA** mixed with 1 part water, and use as an adhesive bedding mortar to fix the tiles.

COVERAGE

As a neat bonding agent: 4 – 5 m²/litre/coat (without dilution).

As a primer coat: 6 – 7 m²/litre/coat (diluted 1:1 with water).

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PACKAGING

5 litre, 20 litre and 200 litre containers.

STORAGE AND SHELF LIFE

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

HEALTH AND SAFETY

PPE: Suitable protective goggles, gloves and mask must be worn.

Precautions: In case of contact with eyes, rinse immediately with plenty of water; in case of contact with

skin, wash off immediately with soap and water. If swallowed, seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. Dispose of as per local rules and regulations.

Additional information: Refer to MSDS (available on request).

TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

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