

PRODUCT DATA SHEET

EVERBUILD® 501 Universal PVA Bond

A GENERAL PURPOSE BONDING AGENT, PRIMER, SEALER AND ADMIXTURE.

PRODUCT DESCRIPTION

EVERBUILD® 501 Universal PVA Bond is a medium viscosity, polyvinyl alcohol stabilized, externally plasticised, vinyl acetate homopolymer. Contains no harmful phthalates.

It has been designed specifically for use in the building industry as a general purpose bonding agent, and additive for concrete and plasters and as a multi-use adhesive.

USES

- As a general purpose adhesive for wood, cork, paper, textiles etc.
- As an admixture for mortar/screeds/renders.
- As a bonding agent for screeds/renders to difficult substrates.
- As a primer/sealer in tiling applications.
- As an internal filler when mixed with wood shavings, plaster etc.
- EVERBUILD® 501 Universal PVA Bond can be used to stick paper, cardboard and other similar porous substrates.

CHARACTERISTICS / ADVANTAGES

- Greatly improved adhesion to a wide range of substrates including dense concrete, glass, steel, tiles etc.
- Mixes may be applied in much thinner sections with improved resistance to salt permeation.
- Reduced surface dusting of concrete.
- Improves flexibility of sand cement products.
- Reduced water: cement ratio for equivalent workability.
- Improved frost resistance.
- Reduces surface porosity of mortar/plaster

Total Solids	32 - 37%
Viscosity @ 23°C Brookfield RTV 5/20	7000 - 15000 cps @ 23°C
	-25°C
Minimum Film Forming Temperature (°C)	-2°C to +5°C
High Temperature Stability (1 Week @ 50°C)	Stable

APPROVALS / STANDARDS

EVERBUILD® 501 Universal PVA Bond meets the bond strength requirements of BS5270, "Polyvinyl acetate (PVAC) emulsion bonding agents for internal use with gypsum building plasters".

PRODUCT INFORMATION

Packaging	1ltr, 2.5ltr, 5ltr and 25ltr - Jerry Can 500ml - Plastic Bottle. 1000ltr - IBC
Shelf Life	12 Months from date of manufacture in original unopened containers.

Storage Conditions

To ensure safe storage of EVERBUILD® 501 Universal PVA Bond, containers should be well sealed to prevent evaporation of water and the formation of skin on the surface. The emulsion must be stored at a temperature above freezing. Storage temperature of 5°C - 25°C is recommended. Higher temperatures will affect quality and cause the formation of crusts and skins, especially if the containers are not tightly closed or subjected to direct sunlight for long periods. EVERBUILD® 501 Universal PVA Bond exhibits excellent stability at high storage temperatures. After 1 weeks storage at 50°C no significant changes in viscosity were observed.

Density	ca. 1.07 g/cm ³
pH-Value	4 - 6

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces must be clean, dry and free from grease.

PRIMING AND SEALING

Where the emulsion is to be used on porous substrates (old concrete, plaster, plasterboard etc.), it should be diluted 4 parts water : 1 part emulsion to seal the surface in preparation for further coating.

BONDING

EVERBUILD® 501 Universal PVA Bond can be used to bond plaster and cement renders/repair compounds. To bond plaster, the emulsion should be used undiluted and brushed onto the surface to be plastered. Fresh plaster should be applied before the emulsion dries.

The bond strength of the plaster to the substrate meets the requirements outlined in BS5270 (Plaster bonded to glass).

To bond cementitious renders or repair compounds, two methods of use can be considered.

i) Small areas:- mix EVERBUILD® 501 Universal PVA Bond with an equal amount of water and add this to the mortar/concrete mix (the emulsion exhibits excellent compatibility with cement).

When added to a concrete/mortar mix, EVERBUILD® 501 Universal PVA Bond will improve adhesion and also flexural strength of the cured concrete in a similar way to conventional PVA bonding agents.

ii) Larger areas:- dilute the emulsion, 3 parts emulsion : 1 part water and brush onto the surface to be coated/repared. Apply a normal concrete mix before the emulsion dries.

WOODWORKING

EVERBUILD® 501 Universal PVA Bond will bond wood in similar fashion to conventional bonding agents. The emulsion should be used neat in woodworking applications. In laboratory test, wood failure was observed in joints constructed with EVERBUILD® 501 Universal PVA Bond.

In common with conventional PVA bonding agents, EVERBUILD® 501 Universal PVA Bond should not be used for load bearing applications.

LIMITATIONS

- Not suitable for external applications. Use EVERBUILD 503 SBR BOND
- As a wood adhesive, do not use as an externally / where water is likely. Use 502 All Purpose Weather-

proof Wood Adhesive

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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EVERBUILD501UniversalPVABond-en-GBEVER-(03-2018)-1-1.pdf

Product Data Sheet
EVERBUILD® 501 Universal PVA Bond
March 2018, Version 01.01
021405061000000046