

# Polybond PVA

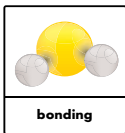
## PVA based bonding agent and admixture

used as a surface sealer, bonding agent and admixture for cement and mortar.



### CHARACTERISTICS

- ▶ Bonds to most common construction material except PVC rubber and similar products
- ▶ Versatile
- ▶ Enhances adhesion
- ▶ Increases strength



### FIELDS OF APPLICATION

- Adhesive  
Polybond PVA bonds with almost all kinds of building materials except PVC, rubber and polyethylene. When added with suitable filler, it can be used for fixing plasterboard, ceramic tiles, marbles etc.
- Bonding Agent  
Polybond PVA gives mortars, especially topping mortars enhanced bond strength. The wear resistance of screed treated with Polybond PVA is improved than that of a conventional sand and cement screed. The topping will be dust free, wear, water, oil and grease resistant
- Admixture  
Polybond PVA has a plasticizing effect which improves mortar application, increases the mechanical strength of screeds and renders, reduces shrinkage and has perfect adhesion even on smooth concrete
- Surface sealer  
Polybond PVA can be used as a surface sealer for concrete and floors to minimize the dusting and penetration of oils. It can be used as an effective primer on certain decorative coatings

### DESCRIPTION

Polybond PVA is a polyvinyl acetate based polyvinyl alcohol suspension used as a surface sealer, bonding agent and admixture for cement and mortar.

### APPLICATION INSTRUCTIONS

#### As an adhesive for uneven surfaces

Make a paste of Polybond PVA diluted with equal amount of water, cement and fine sand. The paste can be applied



TDS\_Polybond PVA\_GCC\_0519

1

as an adhesive for fixing plaster boards, polystyrene tiles. To ceiling and walls. If the surface is highly porous, apply a primer coat of Polybond PVA mixed with water in the ratio of 1:3.

#### As a bonding agent for screeds, plasters and renders

The surface shall be sound and free from all contaminants, such as oil, grease, paint etc. Sealing of the surface is done with 1 part of Polybond PVA with 3 parts of water. Apply the bonding coat followed by the application of the render, screed or plaster normally. The same method shall be used to bond new to old concrete.

#### As an admixture

For normal to heavy duty flooring, 20-30L of Polybond PVA is the recommended to be admixed with 100 kg cement.

#### For heavy renderings and cementitious toppings

Seal and prime the surfaces with Polybond PVA diluted with 3 parts of water. Prepare the render coat with 1 part of ordinary portland cement, 1 part clean washed sand and 1 part of Polybond PVA to 3 parts of clean water. Apply this to the tacky prime coat. 10 to 15L of Polybond PVA per 100 kg cement is recommended.

**Note:** Stir the contents of the product thoroughly, before use

**LIMITATIONS:**

- not recommended where permanent dampness occurs.
- do not use below 5°C
- do not over towel

**CLEANING**

Clean all the tools with water immediately after use.

**STORAGE & SHELF LIFE**

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in unopened condition and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

**HEALTH & SAFETY**

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

**SUPPLY**

Polybond PVA 5L, 20L pails & 200L drum

**DOSAGE****As an admixture**

Floor screeds/topping	20-30L of Polybond PVA per 100 kg cement i.e. 100-150L /m <sup>3</sup> of mortar approximately
Render coat	10-15L /100 kg cement

**As a Primer /adhesive / bonding coat**

Neat	1L / 10 m <sup>2</sup>
dilute1:1	1L / 20 m <sup>2</sup>
dilute1:3	10-15L / 35m <sup>2</sup>

*These values will vary according to the degree of porosity and texture of the surface.*

**TECHNICAL SPECIFICATION**

PROPERTIES	VALUES	TEST STANDARDS
Appearance	White viscous liquid	-
Solid content, [%]	30±3	ASTM D 2939
pH	6-7.5	BS EN ISO 787
Specific gravity	1.05±0.05	ASTM D 1475
Application temperature, [°C]	5 to 45	-

*All values given are subject to 5-10% tolerance*

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.