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SpEC

SpECbond PVA

POLYVINYL ACETATE ADHESIVE

DESCRIPTION

SpECbond PVA can be used as a multi-purpose adhesive based on a plasticised polyvinyl acetate and is in the form of a viscous opaque emulsion which dries to a transparent film, **SpECbond PVA** will bond most common building materials, concrete, brick, timber etc., to themselves and to each other - the exceptions being plastic, rubber and polyethylene.

TYPICAL USES

SpECbond PVA can be used as a multi-purpose adhesive, primer, sealer and admixture for cement systems.

ADVANTAGES

- Versatile and economical.
- Quick drying high strength adhesive.
- Excellent shelf life under normal conditions.
- Conforms to British Standard 5270.

TECHNICAL DATA

Specific gravity	1.08 @ 20 °C
pH	4.5 to 5.5
Viscosity	@ 23 °C Brookfield 150-350 poise
Solids Content	40% ± 1%
Non-toxic	
Chloride content	Nil
Minimum film forming temperature	2-4 °C
Low temperature stability	-18 °C
High temperature stability	1 week @ 50 °C

APPLICATION

Preparation

To achieve results it is important that preparation is carried out thoroughly. Although **SpECbond PVA**

has exceptional adhesive properties it will not perform efficiently on contaminated surfaces. Remove all flaking and cracking paint, unsound plaster, oil, grease and friable matter to provide a stable substrate. Highly absorbent surfaces such as Concrete, Foam and Slag blockwork may require pre-wetting before application of **SpECbond PVA** sealer. Please note that PVA should not be used as a bonding agent where wet conditions are continuous or in highly humid areas - see data of **SpECbuild BA10**.

For use as an adhesive

When bonding wood to wood apply a thin coat to one face only and press together firmly. On large surface areas, certainly with laminated plastic, clamping or weights may be required for up to 24 hours. Very porous surfaces will need to be primed with 1 part **SpECbond PVA** diluted with 3 parts water and allowed to dry before carrying out the adhesive operation. It is not recommended that unmodified **SpECbond PVA** be used for gap filling where gap filling is necessary perhaps in the bonding of plasterboard, polystyrene, acoustic board etc., a suitable filler should be used to modify **SpECbond PVA**. Mixing equal parts with water and adding fillers such as plaster, cement, fine sand or sawdust would accommodate the gap filling requirement - consult our Technical Services Department if a detailed specification is required.

For use as a plaster, cement/sand render & screed bonding agent

Normally, on most surfaces, no mechanical hacking or keying is required before application of gypsum plaster. Mix **SpECbond PVA** with an equal part of water, apply to prepared substrate and allow to become tacky before plastering in the normal manner. For heavier rendering using sand/cement systems, seal and prime as above but employ an intermediate bonding slurry prepared by mixing 1

part ordinary Portland Cement with 1 part **SpECbond PVA** to 3 parts water. Apply the slurry to the still tacky primer with a stiff brush to achieve a rough surface or stippled surface. Allow to harden, check adhesion to substrate and apply rendering. When rendering on glazed tiles or highly polished surfaces it is suggested that light pick hammering should be carried out before following the above recommendations.

For use as an admixture in cement/sand or granolithic screeds

This incorporation of **SpECbond PVA** allows for reduced thickness floor screeds to be laid without recourse to setting out bays. The ability to lay at reduced thickness enables the operator to redress unacceptable differences in levels but resolution of these levels should be confined to between 9 to 19mm thickness of screed.

Areas subjected to light traffic should be primed as recommended and screeded with a mix of 3 parts sharp sand, 1 part cement and gauged with 8 litres of **SpECbond PVA** per 50 kg of cement.

Where heavy traffic is envisaged use a mix of 1 part sand, 1 part cement and 2 parts granite (6 to 3mm) - gauge with **SpECbond PVA** at the rate of 10 to 15 litres per 50kg of cement and add a little water if necessary but this type of screed should be mixed semi-dry, never overwet. Lay the screed on a tacky bonding coat, tamp and trowel to a smooth finish. **SpECbond PVA**/sand/cement screeds can normally be opened to light foot traffic in 36 to 48 hours and granolithic 24 to 36 hours. Before opening to heavier traffic allow 3 to 7 days depending on the type and weight of traffic.

For use in repairs to concrete

Prepare damaged or worn concrete as recommended and attempt to cut-back perimeter edges of the area to minimise the necessity for

feather-edging'. Prime with equal part **SpECbond PVA** and water and repair whilst primer is still tacky.

The repair mix should consist of 1-part cement and 2-part sand gauged with a mixture of 1 part **SpECbond PVA** to 3 parts clean water. Compact firmly but do not over-trowel.

CURING

Cure using a suitable curing agent such as **SpECcure WE**.

EQUIPMENT CLEANING

Equipment and tools should be cleaned with water immediately after use.

PACKAGING & YIELD

Supplied in 5 litre, 20 litre and 200 litre units.

When used as an adhesive, coverage will vary according to the degree of porosity of the surface to which **SpECbond PVA** is applied but the following average will provide a guide.

Undiluted	-	9 m ² /litre
Diluted 1:1	-	20 m ² /litre
Diluted 1:3	-	32 m ² /litre

STORAGE & SHELF LIFE

Store under cover and away from extremes of heat and cold. The shelf life of the product is in excess of 12 months in unopened containers.

HEALTH & SAFETY

SpECbond PVA should not be allowed to come into contact with skin or eyes, or be swallowed.

See Health and Safety Data.

FLAMMABILITY

SpECbond PVA is non-flammable.

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696

E-mail: info@spec.ae;

www.spec.ws