

# TECHNICAL DATA SHEET

## MORTAR BOND PVA



### DESCRIPTION



**Harris Mortar Bond PVA** is an economical quick drying adhesive, sealer and bonding agent and cement admixture which has many applications.

Harris Mortar Bond PVA conforms to the requirements of BS 5270.

### BENEFITS

- Numerous applications in the building industry from one product
- Economical and simple to use
- Exceptional adhesive properties
- Quick Drying

### TYPICAL USES

- As an adhesive for most common building materials - Harris Mortar Bond PVA will bond most common building materials - except PVC, rubber and polythene – to themselves and to each other.
- As a bonding agent for cement screeds and render, plaster and concrete - Harris Mortar Bond PVA will bond cement screeds, rendering and plaster to most sound surfaces such as concrete, stone and brick and new concrete to old without the need for hacking the surface to form a key.
- As an admixture for mortar / in cements / sand and granolithic screeds: Harris Mortar Bond PVA enables thin, jointless floor toppings to be laid.
- As a sealing coat - Applied to porous concrete renders, plaster, plasterboards and granolithic floors as a sealer, Harris Mortar Bond PVA minimizes dusting.

### DIRECTIONS FOR USE

#### AS AN ADHESIVE:

On smooth, flat surfaces, coat both faces with Harris Mortar Bond PVA diluted with an equal volume of water. Allow to become tacky then press together. When bonding smooth wood to wood, apply a thin coat of neat Harris Mortar Bond PVA to one face only and press together firmly. On large areas, such as laminated plastic, clamping or weights may be required until the bond is set (usually after 24 hours, depending upon surface porosity).

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### Dilution Rate

As a sealer coat: 1 part Harris Mortar Bond PVA to 4 parts water.

As a bonding coat: dilute 3 parts Harris Mortar Bond PVA to 1 part water and apply after application of a 1: 4 sealer coat.

Note: Allow the sealer coat to dry prior to the application of the bonding coat. On totally non-absorbent surfaces, such as polished granite, etc. the sealer coat may be omitted. If surfaces to be bonded are very porous, first prime with 1 part Harris Mortar Bond PVA diluted with 3 parts clean water and allow to dry.

### **AS A BONDING AGENT FOR CEMENT SCREED AND RENDERING, PLASTER, ETC:**

The background must be sound since the adhesion of the mortar to the floor, wall or ceiling will only be as good as the surface beneath. Carefully examine the surface and remove all flaking and cracking plaster etc. The surface must be stable and sound, thoroughly clean, and free from oil and grease. Seal the surface using Harris Mortar Bond PVA (1:4 dilution). Allow this to dry, then apply a bonding coat of 3 part Harris Mortar Bond PVA diluted with 1 parts water. Screed, plaster or render on the tacky bonding coat using established sound practice (when using proprietary premixed plasters consult plaster manufacturer's recommendations regarding the correct grade to use). Cure cementitious screeds and renders properly.

### **BONDING NEW CONCRETE TO OLD:**

Ensure that the substrate is stable, sound, thoroughly clean and free from oil, grease and any loosely adhering material. Apply a sealing coat of Harris Mortar Bond PVA diluted with 3 to 5 parts of clean water and allow to dry. Apply a bonding coat of 3 parts Harris Mortar Bond PVA diluted with 1 volume of water and lay the new concrete while this coat is still tacky. To ensure maximum bond strength, add 1.25 to 2.5 litres or 1.5 to 3 quarts of Harris Mortar Bond PVA per 50Kg (110 lbs) bag of cement.

### **AS A SURFACE SEALER COAT:**

To seal highly porous and badly dusting concrete or granolithic subfloors, apply 2 coats of Harris Mortar Bond PVA diluted at the rate of 1 part Harris Mortar Bond PVA to 4 parts water and a final coat diluted 1 part Harris Mortar Bond PVA to 3 parts water. Allow each coat to dry before proceeding. On less porous floors, the first coat may be omitted.

### **AS AN ADMIXTURE IN CEMENT/SAND AND GRANOLITHIC SCREEDS:**

The use of Harris Mortar Bond PVA in the mix allows thin, joint-less floor screeds 9-18mm thick (3/8 – 3/4 inch thick) to be laid without the need for setting out bays, new levels, etc. For domestic use and other areas subject to light traffic, use 3 parts sand, 1 part cement and 5 litres (1.25 gallons) of Harris Mortar Bond PVA per 25Kg (55 lbs) of cement. For an industrial floor finish or where there is heavy traffic, use 1 part sand, 1 part cement and 2 parts 6 to 3mm (1/4 to 1/8 inch) granite (no dust) plus 10 to 15 litres or 2.5 to 4 gallons of Harris Mortar Bond PVA per 50Kg (110 lbs) of cement. Follow the instructions given above for sealing and bonding, particularly ensuring that the substrate surface is stable, sound

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and thoroughly clean. Mix the mortar by hand or machine to a semi-dry consistency; do not mix the mortar too wet- the addition of Harris Mortar Bond PVA will reduce the amount of water needed to achieve a given workability. Lay the screed on to the tacky bonding coat, tamping well to ensure maximum contact with the floor beneath. Trowel to smooth finish. Under normal temperature conditions with the maximum addition of Harris Mortar Bond PVA the setting time of sand/cement is 36 hours to 48 hours and granolithic 24 hours to 36 hours. Allow 3 days to 7 days before opening to traffic, depending upon the severity of the traffic (longer may be required if temperatures are low).

### COVERAGE:

As a primer/adhesive:

Neat 1 litre per 6-12 m<sup>2</sup> or 1 quart/6-12 yd<sup>2</sup>

Diluted 1:4: 1 litre per 24-48 m<sup>2</sup> or 1 quart/25-50 yd<sup>2</sup>

Diluted 1:3: 1 litre per 18-36 m<sup>2</sup> or 1 quart/ 18-36 yd<sup>2</sup>

The above figures will vary according to the degree of porosity and texture of the surface to which Harris Mortar Bond PVA is applied.

As an admixture:

Harris Mortar Bond PVA is added at the rate of 10 to 15 litres (2.5 to 4 gallons) per 50Kg (110 lbs) of cement used i.e., approx. 100 to 150 litres per cubic metre (26 – 40 gallons per 1.3 cubic yard) of mortar

### PROPERTIES

Specific Gravity	1.004@ 20°C
pH	11.0
Colour	Red
Chloride Ion Content	< 0.1% (w/w) of admixture (nil)
Freezing Point	-2°C

### PACKAGING SIZES

Quart (0.946 Litre), Gallon (3.785 Litres), and Five Gallon (18.92 Litres)

### PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN

Skin contact	Wash immediately with plenty of soap and water. There may be mild irritation at the site of contact.
Eye contact	Bathe the eye with running water for 15 minutes. There may be irritation and redness.
Ingestion	Wash out mouth with water. There may be irritation of the throat.

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Inhalation	No symptoms
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Storage: Store at moderate temperatures. Will freeze but can be reconstituted by stirring after thawing. Stir before use.

Shelf Life: Minimum two years when stored in accordance with the manufacturer's instructions.

### TECHNICAL ASSISTANCE

For advice and recommendation on the use of all Harris/BH Paints and Building Products, consult the Harris Technical Department, Tel: (246) 429-4840.

Email: [technical@harrispaintsonline.com](mailto:technical@harrispaintsonline.com)