

PRODUCT DATA SHEET

DOLPHIN PVA 105

CONCRETE SOLUTIONS

MULTI PURPOSE ADHESIVE & BONDING AGENT

PRODUCT DESCRIPTION

DOLPHIN PVA 105 is based on polymerized (Poly vinyl acetate) resin emulsion, which dries to a colourless transparent film.

FEATURES

DOLPHIN PVA 105 is a multi purpose adhesive, bonding agent and admixture for cementitious system.

APPLICATION

- As a multipurpose adhesive for cement screeds rendering plaster and to almost all sound surfaces such as concrete, brick, terrazzo and tiles.
- As a bonding agent for granolithic topping to sub concrete or new concrete to old.
- As an admixture in cement/sand screeds.

ADVANTAGES

- Multipurpose adhesive.
- Easy to use / apply.
- Superior adhesive properties.
- Quick drying. Non-toxic, non flammable.

Appearance:

Milky white viscous liquid drying to colourless transparent film.

Density:

1.02 kg/liter at 25 OC.

pH : 4 to 5

Chloride Content :

Nil to BS 5075.

Flammability :

No tendency to flash or ignite.

Compatibility with cement:

Compatible with all types of Portland cement.

Toxicity :

Non-toxic.

Shelf life:

Minimum 12 months in sealed original containers, under recommended storage conditions

COVERAGE (As a primer or adhesive)

The coverage rates given are approximate and may vary according to porosity and surface conditions of substrate.

Dilution Rate	Coverage
1:1	5 to 10 m ² /ltr
1:2	12 to 20 m ² /ltr
1:3	20 to 30 m ² /ltr
1:5	25 to 40 m ² /ltr

DIRECTIONS FOR USE

Surface preparation:

All surfaces must be stable sound and thoroughly cleaned before DOLPHIN PVA 105 is applied. All traces of grease, oil, unsound concrete, loose or foreign materials must be removed, as adhesion of the mortar to floor, wall, ceiling etc. will depend a lot on the cleanliness of the surface beneath. Recommended DOLPHIN PVA 105 for cleaning.

Field of Application:

DOLPHIN PVA 105 should not be used as a bonding agent in continuously wet and highly humid areas. Application should be done by brush or roller as explained in the following method of application:

As a general adhesive:

DOLPHIN PVA 105 bonds asbestos, bricks, concrete, cork, plaster boards, renders, tiles, wood etc. After surface preparation, coat both faces with DOLPHIN PVA 105, allow to become tacky, then press both surfaces together and position as required. Wipe off any excess material and allow to set for 24 hours.

As a bonding agent for cement screed, rendering plaster etc

On well-prepared surface, apply a sealer coat using 1 part DOLPHIN PVA 105 to 5 parts of water and allow this to dry. Then apply a bonding coat of 1 part DOLPHIN PVA 105, with two parts water (dilution rate of DOLPHIN PVA 105 varies with substrate porosity) over the surface. Screed, plaster or render on the tacky bonding coat using established sound practice. Cure cementitious screeds and renders properly.

Bonding new concrete to old:

Ensure that substrate is well prepared. Apply a sealing coat of DOLPHIN PVA 105 diluted with 3 parts of water and allow to dry. Apply a bonding coat of DOLPHIN PVA 105 diluted with equal volume of water and lay the new concrete while this coat is tacky. To ensure maximum bond strength, add 10 to 20 liters of DOLPHIN PVA 105 per 100-kg bag of cement.

For repairs to concrete:

Surface must be sound and well prepared. Seal the surface using 1 part DOLPHIN PVA 105 with 4 parts water. Allow to touch dry. Then apply a bonding coat of DOLPHIN PVA 105 diluted with equal volume of water. Allow to become tacky. Using the same sand and aggregate, as in the concrete to be repaired, prepare a stiff cement/sand mix in 1:2 proportion gauged with 1 part DOLPHIN PVA 105 to 2-3 parts water, compact firmly and level with minimum trowelling.

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As bonding agent for ceramic, concrete, quarry, clay & terrazzo tile.

The existing substrate should be leveled and clean. Seal the substrate with a solution of 1 part **DOLPHIN PVA 105** to 5 part water (dilution rate varies with substrate porosity). Prepare a thin bed adhesive mix by mixing together one part ordinary portland cement to two part sharp sand with a diluted solution of 1:1 **DOLPHIN PVA 105** with water. Apply thin bed mix to the base and bed tiles.

As anti-dust & surface sealing coat:

Apply two coats of **DOLPHIN PVA 105** extended as 1 part with 3 parts water. Allow first coat to dry before applying second coat.

As admixture for cement/sand & granolithic screeds:

The use of **DOLPHIN PVA 105** in the mix allows thin, joint less floor screeds (6 to 18 mm thick) to be laid without the need for setting out bays, new levels etc.

Ensure that substrate surface is stable, sound, thoroughly cleaned and well prepared.

Apply a bonding coat of **DOLPHIN PVA 105** diluted with 1 part water onto the surface. Brush well into all crevices and allow to become tacky.

Lay the screed on the tacky bonding coat, tamping well to ensure maximum contact with the floor beneath. Trowel to a smooth finish.

For domestic use:

Cement 1 part
Sharp sand 3 parts
DOLPHIN PVA 105 10 liter per 50 kg cement
Water To get semi dry cohesive consistency

For industrial floor:

Cement 1 Part
Sand 1 Part
Granite (3 to 6 mm) 2 Parts
DOLPHIN PVA 105 12 to 15 liters per 50 kg cement
Water is adjusted to get workable mix.

Mix the material to a semi dry consistency. Do not mix the mortar too wet. Addition of **DOLPHIN PVA 105** to the mix will reduce the amount of water to achieve a given workability.

CLEANING OF TOOLS

Clean all the tools and equipment with water immediately after use.

SAFETY PRECAUTIONS

DOLPHIN PVA 105 is non hazardous in normal use. Contact with eye or skin should be cleaned or washed immediately with abundant water.

PACKAGING

DOLPHIN PVA 105 is supplied in 5 kg pails, 20 kg pails and 200 Kg drums

STORAGE

- Store in sealed conventional containers, protected from extreme weather conditions.
- Stir well before use, if stored for a long time.

GENERAL NOTES

- DOLPHIN PVA 105** is not suitable where conditions of rising damp or permanent dampness are likely to occur.
- Do not apply mixed material too wet.
- Do not over trowel.
- Always lay both sealing coat and bonding coat as recommended.

TECHNICAL SERVICE :

Our Technical service Department is available at any time to advise you in the correct use of this product or any other products. **Note** : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control. **As all Technical Data Sheets are updated on a regular basis, it is the user responsibility to collect most recent issue.**