

GEOCHEM



PROFESSIONAL
BUILDING
CHEMICAL
RANGE

UNIVERSAL PVA

ADHESIVE AND SEALER – PRIMES, SEALS AND BONDS CONFORMS TO BS 5270 & BSEN 204-D1:2001

Specially made for the trade, **Geochem Universal PVA** adhesive & sealer has been proven to be effective in a wide variety of applications. It is suitable for most priming, sealing and bonding applications in the construction industry and for general-purpose use around the factory and office.

Whatever the surface, whatever the task – **Geochem Universal PVA** adhesive & sealer aims to provide the solution.

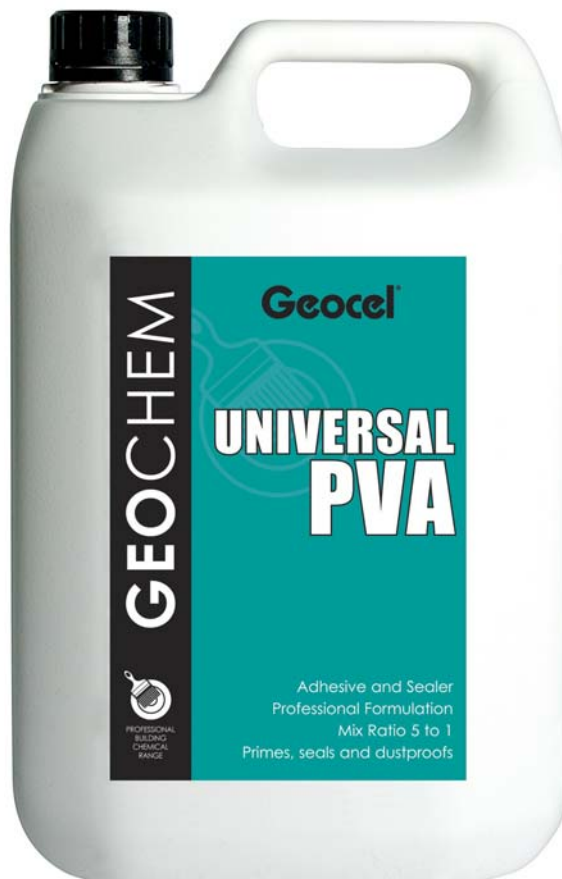
- High strength surface bonding for wood, paper, veneers, stone, fabrics, plaster, concrete, renders and cement screed, plasterboard, wall coverings, bitumen, polystyrene tiles, painted surfaces, walls, bare masonry, glass, brick, chipboard, carpet, leather or rigid foam.
- Multi surface primer and dustproofer prior to repairs or finishing.
- Sealer for concrete, plaster and mortar surfaces.

- Additive to cement and plaster to increase strength and adhesion.
- Bonding agent applied prior to plastering or repairing.

NB:

Geochem Universal PVA adhesive & sealer is not suitable:

- For bonding two non-porous surfaces together (eg rubber, vinyl, polypropylene and most plastics)
- As a wood adhesive for joints that are subject to continuous stress
- For rendering areas subject to constant immersion.



PREPARATION

Can either be used neat or diluted with water according to the application. Surfaces should always be clean, dry and free from dust, grease, oil, wax, efflorescence and loose material.

APPLICATION

- **As an adhesive:** Evenly apply **Geochem Universal PVA** to the less porous surface with a brush. Position substrates and apply light pressure to aid adhesion.
- **As a primer / sealer:** Dilute with water as recommended below. Apply evenly using a brush or roller.
- **As a bonding agent:** a) Porous surfaces should be primed. Brush apply the PVA before plastering or rendering. b) Use PVA as an additive to cement and plaster to increase strength and adhesion. Diluted PVA can be used as a rendering mixture.

SETTING TIME

Geochem Universal PVA is water based, the setting time is dependant upon temperature, humidity and porosity of substrate.

- **Adhesive:** PVA will usually set to a sufficient strength after 30 minutes, but maximum strength is realised after 24 hrs.
- **Priming / bonding agent:** PVA will be touch dry in 30 minutes, fully curing in 1-3 hrs.

DILUTION RATES

- **Primer:** Dilute 1 part PVA with 5 parts water as an initial coating.
- **Bonding agent:** Prime as recommended then dilute 3 parts PVA to 1 part water.
- **General adhesive:** Undiluted or diluted 1 part PVA to 1 part water.

COVERAGE

Use	PVA (part)	Water (part)	Approximate Coverage per litre of PVA
Priming Coat	1	5	28 – 40m ²
General Adhesive	1	1	16 – 24m ²
Bonding Coat	3	1	10 – 16m ²
Adhesive (neat)	1	0	6 – 12m ²

CLEAN-UP AND STORAGE

Mis-applied or excess product can be removed before it dries by wiping with a wet cloth. Material may settle on prolonged standing. If contents have settled, shake well before use. Store at between 5°C and 25°C. Protect from frost.

REPAIRING INTERNAL RENDERING

Extra thick renders

Prime clean surface (1 PVA : 5 water) and allow to dry. Prepare a wet slurry of 2 sharp sand : 1 cement, mixed with 1 PVA : 1 water. Apply with a

trowel or brush and peak up. Allow to dry for 24 hours before rendering.

Bonding internal renders to stone, brick, breezeblock and concrete

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply coating (1 PVA : 3 water) and render while tacky. For extra patch adhesion, mix mortar with solution (1 PVA : 1 water).

Re-face stonework or brick

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water) and leave until tacky. Mix sand and cement mortar using 1 PVA : 1 water. Trowel on mortar patch or fill cracks. Add cement or brick dust colouring to match.

Fill cracks in render. Repair cracked, flaking or worn steps

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water) and leave until tacky. Mix sand and cement mortar using 1 PVA : 1 water. Fill cracks or trowel on mortar patch.

Bonding cement and sand renders to glazed surfaces

Prepare a wet slurry of 2 sharp sand : 1 cement, mixed with 1 PVA : 1 water. Apply with a brush or trowel and peak up. Allow to dry for 24 hours before rendering.

Rendering soffits and lintels

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water) and render while tacky. For patch adhesion, mix mortar with solution (1 PVA : 1 water).

PREPARING SOLID FLOORS

Fixing quarry tiles, paving, terrazzo and slate tiles

Prime clean surface (1 PVA : 5 water) and allow to dry. Mix cement and sand screed using 1 PVA : 1 water. Coat floor and back of tile. While still tacky apply cement / sand bedding to floor (from 3mm upwards) then lay tiles.

Dust proofing concrete floors.

Coat clean, dry surface (1 PVA : 3 water) and allow to dry. (New cement must be left to dry prior to application. One month per inch thickness).

Laying tough, thin (9mm) or feather edged screed

Prime clean surface (1 PVA : 5 water) and allow to dry. Mix sand and cement screed using 1 PVA : 1 water. Apply bond coating (3 PVA : 1 water) and leave until tacky, then trowel on, screed and level.

Bonding new screed to old surfaces, tiles, concrete, flagstones, bricks, slate etc

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water) and leave until tacky. Mix cement and sand screed using 1 PVA : 1 water, then trowel on, screed and level.

PROFESSIONAL PLASTERING TECHNIQUES

Bonding lightweight finishing / bonding plasters to porous, painted and glazed surfaces

Porous Surfaces: Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water). Leave until tacky then set on new plaster.

Painted Surfaces: Coat surface with undiluted PVA Adhesive and Sealer. Plaster while tacky.

Glazed Surfaces: Prepare a wet slurry of 2 sharp sand : 1 cement, mixed with 1 PVA : 1 water. Apply with a brush or trowel and peak up. Allow to dry for 24 hours then apply new plaster.

Plastering over gloss paint

Coat surface with undiluted PVA Adhesive and Sealer. Plaster while tacky. (NB: The bond will depend on the paint being able to hold the weight of the plaster).

Bonding plasterboard

Prime wall and back of plasterboard (1 PVA : 5 water) and allow to dry. Mix plaster paste with 1 PVA : 1 water then coat plasterboard with mixture. Press onto wall and allow to set.

Bonding new plaster to existing plaster, porous surfaces and concrete

Prime clean surface (1 PVA : 5 water) and allow to dry. Apply bond coating (3 PVA : 1 water). Leave until tacky. Then trowel on plaster.

Special finishing corners, cornice mouldings etc

Mix finish coating with 1 PVA : 1 water, rather than just water.

Plastering on glazed tiles

Coat surface with undiluted PVA Adhesive and Sealer. Plaster while tacky.

MAKING DECORATING EASY

Hanging heavy wallpapers

(NB: Method to be used on flat surfaces only). Remove any flaking distemper, old adhesive, etc. Dilute 1 PVA : 3 water and make bond.

Priming: plaster and plasterboard, wood or board before tiling

Prime surface with 1 PVA : 3 water. Allow to dry before proceeding. Not to be carried out in areas under constant water immersion.

Hanging wall fabrics

Prime wall with 1 PVA : 5 water and allow to dry. Then hang as usual with recommended wall covering adhesive.

Hanging hessian backed and grasspapers

Prime wall with 1 PVA : 5 water and allow to dry. Then hang as usual with recommended wall covering adhesive.

Fixing polystyrene tiles

1. **Uneven surfaces:** Mix 1 PVA : 1 water into an interior plaster filler and use as an adhesive.
2. **Flat surfaces:** Use undiluted PVA adhesive and sealer.

Securing large areas of filler

Mix filler with 1 PVA : 1 water, rather than just water.

Priming gloss paint before papering

Before papering, make solution (1 PVA : 1 water). Apply one coat and allow to dry. Proceed with papering in usual manner.

REPAIRING ALMOST ANYTHING

Ornaments

Use neat PVA Adhesive & Sealer for repairs. Do not immerse in water.

Polystyrene mouldings

1. **Uneven surface:** Mix into an interior filler, using 1 PVA : 1 water, rather than just water.
2. **Flat surface:** Remove damaged section using hot wire or knife. Replace section. Bond with 1 PVA : 3 water.

Wood, paper or leather

Use neat PVA Adhesive & Sealer for repairs.

Replace interior tiles

Prime both surfaces with 1 PVA : 5 water. Allow to dry. Bond with neat PVA Adhesive & Sealer.

Broken china and ceramics (not to be immersed in water)

Use neat PVA Adhesive & Sealer for repairs.

Sealing frayed carpets

Apply hessian patch to back of carpets. Seal with neat PVA Adhesive & Sealer.

Patching torn canvas

Apply patch to back of canvas. Seal with neat PVA Adhesive & Sealer.

USES IN CRAFT AND HOBBIES

Model making, collages, and bookbinding

Use neat PVA Adhesive & Sealer for sticking balsa wood, card, felt, paper and fabric.

Fabrics and furnishings

Use neat PVA Adhesive & Sealer to hem fabrics and repair furnishings.

Rugs and tapestries

Use neat PVA Adhesive & Sealer to seal knots

Macrame and scrimshaw, glazing ornaments

Seal rope ends, glaze knots, paint ornaments with 1 PVA : 1 water. Dry away from dust.

Roller blinds

Hem with neat PVA Adhesive & Sealer.

Preventing Christmas trees and insulating fibres from shedding

Spray tree, mineral wool or fibre with 1 PVA : 3 water.

Mounting photographs and drawings

Use neat PVA Adhesive and Sealer to paste prints. (NB: Will not harm photographic prints).

Wood working

Use neat PVA for joints that will not be subjected to stress.

PACKAGING

Geochem **Universal PVA** is available in 500ml bottle packed in boxes of 20, 1 litre bottles packed in boxes of 12, 2.5 litre jerricans packed in boxes of 4 and 5 litre jerricans packed in boxes of 2.

HEALTH AND SAFETY

Health and Safety data sheets available on request.

TECHNICAL SERVICE

For further technical information, advice on suitability for specific applications, or detailed Health and Safety information, contact **Geocel® Technical Service**.

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