TYPE P

PVC CEMENT FOR PRESSURE PIPES

AS/NZS 3879 and AS/NZS 4020 APPROVED

TECHNICAL DATA SHEET

PROTEK BOND SEAL COAT

PRODUCT NAME:

PROTEK PVC PIPE CEMENT TYPE P

DESCRIPTION & APPLICATION

Protek PVC Solvent Cement Type P is a specially formulated resin based adhesive for bonding PVC-U pipe & fittings. **Protek PVC Solvent Cement Type P** is slower setting than **Protek Solvent Cement Type N,** and is suitable for Pressure applications in residential, commercial, agricultural and industrial work such as Irrigation, Reticulation, Swimming Pools & Spas and Pressurised Fluid Lines.
Bonds are waterproof if the jointing instructions in AS/NZS 2032 are followed.

FEATURES & BENEFITS

- Manufactured to the highest Australian Standards and Quality Assurance so the **Protek PVC Pipe Cements** come with a 10 year manufacturer's warranty.
- Conforms to the stringent performance requirements of AS/NZS 3879 so you can have confidence it will do the job.
- AS/NZS 4020 approved, which means it is suitable for use in contact with drinking water.
- Watermark and ISO 9001:2008 accredited so quality assurance is assured.
- All Packaging is Dangerous Goods approved so it can be stored and transported with confidence.
- Tightly engineered cap to minimise the risk of leaks.
- Range of sizes to suit any job.
- All containers are supplied with a natural bristle brush applicator cap to ensure easy application.
- Proven product performance over several decades in millions of applications around Australia and overseas.

TECHNICAL DATA

AS/NZS 3879 SHEAR STRESS TEST REQUIREMENTS FOR TYPE P

DRYING TIME	JOINT STRENGTH TO EXCEED	
20 minutes	0.4 MPa	400 kPa or 58 psi
1 Day	3 MPa	3000 kPa or 435 psi
60 Days	8 MPa	8000 kPa or 1160 psi

PHYSICAL PROPERTIES

Appearance	Green or Clear Viscous Liquid
Specific Gravity @ 20°C	0.94-0.96
Viscosity @ 20°C, cPs	1000-1300
Contents	Contains more than 700g/L Hydrocarbon Liquids.
Shelf Life	2 years if unopened and stored in a cool, dry, well ventilated place out of direct sunlight.

VOC LEVELS

Volatile Organic Compound

The Green Building Council of Australia has advised that "Pipe cements are not relevant to the VOC credit as they have little influence on indoor air quality. Plumbing pipes are usually installed some time prior to building occupation and any residual of solvent will be negligible by the time the building is sealed and occupied. In addition plumbing pipes are not a major component of an individual fit-out or building, plumbing cements are minor in quantity in the indoor fit-out when compared to adhesives used in countless other indoor applications." (GBCA Technical Clarification Statement PVC Pipe Cements IEQ-13, Clarification No. 43, October 2009). Refer to the GBCA website for more information www.gbca.org.au

DIRECTIONS FOR USE

PVC Pipe Cement Jointing is a trade skill and should only be executed by appropriately qualified trades' people. Refer to AS/NZS 2032 for complete PVC Pipe Cement jointing instructions.

PREPARING THE JOINT

1. Ensure pipe is cut square and remove burrs.
2. To ensure correct assembly of joint, mark pipe at a distance equal to full socket depth.
3. Test joint for dry fit.
4. Clean pipe and inside of socket using a clean cloth freshly moistened with **Protek Priming Fluid**. This is essential to ensure a satisfactory bond.

MAKING THE JOINT

1. Shake or stir thoroughly **Protek PVC Pipe Cement Type P** before using.
2. Apply **Protek PVC Pipe Cement Type P** in full even coats to both surfaces firstly to the inside of socket, then to external surface of pipe end.
3. Immediately assemble, pushing the pipe home to the full depth of the socket.
4. Hold bonded joint in position for at least 30 seconds.
5. Do not disturb for 5 minutes.
6. Allow 24 hours curing before testing.

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TECHNICAL DATA SHEET

PROTEK BOND SEAL COAT

DIRECTIONS FOR USE (CONTINUED)

The open time of **Protek PVC Pipe Cement,** which is the time from the beginning of adhesive application until the joining of the parts, is dependent on the temperature and on the thickness of the adhesive layer.
With an adhesive layer of 1 mm and at the temperature given below, the parts should be joined within the following times:

20 ºC	4 min.
25 ºC	3 min.
30 ºC	2 min.
40 ºC	1 min.
>40 ºC	<1 min.

For the first 5 minutes after cementing, avoid moving the pipes. At temperatures of less than 10ºC, this should be extended to 15 minutes. If in the ground, cemented jointed pipes may be covered after approximately 10-12 hours. Before using the pipes in normal operation, thoroughly flush them through with water to remove any solvent vapour.

Where pipes are not required for immediate service, it is advisable to flush through thoroughly and possibly allow to stand filled with water.

CAUTIONS

1. Keep the lid tightly on **Protek PVC Pipe Priming Fluid** and **Protek PVC Pipe Cement** when not in use. Evaporation of the solvents will affect the quality and performance of the **Protek PVC Pipe Cement**.
2. **Protek PVC Pipe Cement** should have a "syrup-like" consistency. Do not use it if it is lumpy or "jelly-like" consistency.
3. No additive of any kind (including Priming Fluid) should be mixed with **Protek PVC Pipe Cement.**
4. PVC Pipe Cements take no longer to set in colder temperatures. Do not try to artificially speed up the drying process of **Protek PVC Pipe Cement** by using hair-dryers or the like. This could affect the integrity of the joint.
5. Avoid spilling the **Protek Priming Fluid** and **Protek PVC Pipe Cement** as the dyes leave a permanent stain. In the event of spillage, soak up as quickly as possible with a clean dry cloth.

LIMITATIONS

- **Protek PVC Pipe Cement Type P** is to be used for **Pressure** Applications only.
- Temperatures above 30°C and/or windy conditions can result in premature drying of **Protek PVC Pipe Cement** and prevent a satisfactory bond. In such circumstances either apply a second coat.
- For PVC pipes with a diameter exceeding 100mm use a apply a second coat if not assembled immediately or use a **Large Diameter Solvent Cement**.
- Not suitable for bonding polyethylene or plasticised PVC articles.

SAFETY DIRECTIONS

Irritant. Avoid breathing vapour. Avoid contact with skin and eyes.
Highly Flammable and Keep away from Flames.
NOT TO BE TAKEN. REFER TO MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone: Australia 131 126 NZ: 0800 764 766 or a doctor immediately. If swallowed do not induce vomiting. Give a glass of water.

STORAGE

Store in a cool, dry, well ventilated place and out of direct sunlight. Shelf life is 2 years from the date of manufacture if stored in accordance with the manufacturer's recommendations.

PRODUCT RANGE & CODES

Protek PRODUCT CODE	PRODUCT DESCRIPTION	UNITS PER CARTON
	Protek PVC PIPE CEMENT TYPE P	
A6008	Protek Type P Green 125mL	48
A6009	Protek Type P Green 250mL	36
A6010	Protek Type P Green 500mL	18
A6011	Protek Type P Clear 500mL	18

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