PVC INSTANT

DESCRIPTION

Adhesive especially suited for joining rigid and flexible PVC accessories and tubes in pressure systems, in accordance with EN 14814. Especially suited for joining piping systems and accessories which comply with regulations EN 1452 and EN 1329.
Certified adhesive (CE marking) for thermoplastic piping systems for liquids up to a pressure of PN 16, in facilities meant for transporting/eliminating/storing water not meant for human consumption.
Suitable for use with drinking-water systems.
Adhesive especially apt for applications in pools and whirlpool baths.
Extremely fast-setting. Adhesive formulated for use in humid conditions, quick pressurization and fast installation.
Also suitable for use in non-pressure ABS systems.

TYPE

Based on a homopolymer resin made of polyvinyl chloride (PVC) and stabilized tetrahydrofuran (THF).

PROPERTIES

- Gel consistency.
- Fast-setting speed.
- Highly thixotropic, which prevents 'unhooking' during application.
- Acts as a true chemical binder with PVC, due to its composition.
- Easy to apply; does not drain or form 'tears' on the inside of the glued tubes
- The glued connections are comparable to rigid PVC in terms of resistance and aging.
- Suitable for use in installations assembled in wet conditions.

APPLICATIONS

Adhesive especially suited for:

- Connections of rigid PVC tubes and accessories in systems with pressure up to PN 16, in accordance with that established by regulation EN 14814: "Adhesives for thermoplastic piping systems for fluids under pressure. Specifications." Especially suited for joining materials which comply with regulations EN 1452 and EN 1329.
- ABS plastics piping systems for soil and waste discharge (low and high temperature) EN 1455.
- Water supply, irrigation, gas pipeline, industrial facilities for piping drainage and rain water.
- Specific use in pools, plumbing, both with rigid and flexible PVC.

TECHNICAL CHARACTERISTICS

Properties of packaged cement:

Viscosity (Brookfield RVT, 20 rpm, Sp.5) at 23ºC	Approx. 10.000 mPa s
Thixotropy index	Approx. 4,5
Solid content	Approx. 19,5 %
Density	Approx. 0.93 g/ml
Flammability	Very flammable
Open time (at 23ºC)	Max. 2 min
Filling capacity/ maximum clearance	+ 0.6 mm
Pressurized drying time (under normal conditions)	24 h
Resistance to shearing (1 hour dry)	> 0.4 MPa
Resistance to shearing (24 hours dry)	> 1.5 MPa
Resistance to shearing (20+4 days dry)	> 7.0 MPa
Resistance to pressure (20 ºC)	51.2 bar
Resistance to pressure (40 ºC)	20.8 bar
Application temperature (see note in directions)	-5 to +30ºC
Operating temperature	-5 to +50ºC

INSTRUCTIONS FOR USE

Prepare the pipes by cutting them at a right angle, chamfer at 15º and deburr. Clean and degrease the pipe and socket with a cloth soaked in PVC CLEANER. Stir PVC INSTANT before use. Apply PVC INSTANT with a brush axially from the inside, outwards to form a thin layer in the socket and a thick layer on the pipe. Insert the two parts to the full depth of the joint without twisting, always within 2 minutes after applying the solvent cement. Hold for 30 seconds while the initial bond takes place. Clean off excess solvent cement with a paper towel and PVC CLEANER. Allow 5 minutes before handling. For temperatures lower than 10 ºC, wait at least 15 minutes before handling.

PVC INSTANT cures in 8 hours depending on weather conditions. It is recommended to wait 12 hours before performing the pressure test (1.5 x PN). If the pipes are to be used under pressure within the first 12 hours after bonding, a prior minimum waiting time of 1 hour for each bar of working pressure must be observed. The bonded pipes should be lowered into the trench after 10 to 12 hours.

Installation at low temperature (below 5 ºC) requires utmost care. The pipe ends and sockets to be bonded must first be warmed to 25-30 ºC by means of a suitable hot-air blower (explosion proof). The finished joint must be kept between 20 and 30 ºC for 10 minutes to ensure proper curing.

For diameters from 110 to 250 mm:

- The application of the adhesive by two operators simultaneously is recommended.
- Cut pipe ends square and remove swarf and other residue from inside and outside diameter. Clean and degrease parts to be bonded with a cloth (or crepe paper) soaked in PVC CLEANER.
- Apply the adhesive generously and evenly over the entire surface. Do it quickly to limit drying of the adhesive.
- Immediately fit the two parts completely, pushing longitudinally without turning them.

The following drying times must be followed:

Fixtures subjected to up 10 bars of pressure in tubes with a diameter equal to or less than 90	Application temperature + 5ª C to +35ºC	Drying time reduced to 1 hour
Discharge fixtures		
For any other case		Normal 24-hour drying time

- **CAPACITY:**

The following table shows the quantities of adhesive and cleaner necessary for performing 100 unions of the stated diameters:

DIAMETERS	Adhesive (L)	Cleaner (L)	DIAMETER	Adhesive (L)	Cleaner(L)
32	0.8	0.5	110	8.0	1.7
40	1.1	0.7	140	13.0	2.1
50	1.5	0.9	160	19.0	2.5
63	1.7	1.1	225	26.0	4.5
75	2.2	1.3	280	38.0	6.5
90	4.0	1.4	315	52.0	10.2

STORAGE

This product, stored in its original container in a cool and dry place, will maintain its properties as stated in the following chart.

CONTAINER	STORAGE TIME
Metal can	1 year
Plastic bottle	1 year

Appropriate precautions must be taken due to it being a very flammable product; it must be stored far from flames, sparks, heat sources, and in non-smoking areas.

It is advisable that PVC INSTANT not be stored at temperatures below 5 ºC, since this will increase viscosity and affect the adhesive's applicability. It is necessary, in such cases, to condition the adhesive to the ambient temperature, and stir it to reduce viscosity.

PRESENTATION

Visit our web site www.unecol.com

CLEANING

The fresh product is eliminated with a cloth soaked in PVC CLEANER. PVC INSTANT adhesive attacks rigid PVC, which is why all accidental contact of pieces with the product must be avoided.

SAFETY AND HYGIENE

Consult the product's safety sheets for more information.