



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-301
All Pressure Solvent Cement



Issuance date: 15/05/07

Revision date: 24/12/2025

Revision No.: 25-01

VT-301 All Pressure Solvent Cement

PHYSICAL STATE

Transparent liquid (VT-301)

Grey liquid (VT-301G)

Blue liquid (VT-301BL)

ODOUR

Characteristics

COLOUR

Transparent

Grey

Blue

PACKAGING

100 ml / can
(60 cans/carton)

500 ml / can
(24 cans/carton)

3.0 kg / tin
(8 tins/carton)

4 oz./ can
(48 cans/carton)

8 oz./ can
(24 cans/carton)

16 oz./ can
(12 cans/carton)

32 oz./ can
(12 cans/carton)

SHELF LIFE

12 months

STORAGE

Highly flammable, keep away from heat source or naked flames. Store in dry and cool place, below 30 °C.

APPLICATION TEMPERATURE

-10 °C – 40 °C

SERVICE TEMPERATURE

-10 °C – 60 °C

DESCRIPTION



VT-301 All Pressure Solvent Cement is a premium quality, clear colour, high strength adhesive formulated for PVC and uPVC pipes bonding applications. It is easy to use and offers superior bonding strength. It is tested and complies with MS 628-4:2015 – Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure: Unplasticized Poly (Vinyl Chloride) (PVC-U), Part 4: Solvent Cement.

TECHNICAL DATA	Parameter	Value	Notes
	Solid content	: 23 %	
	Viscosity at 25 °C	: 1,100 cPs	Brookfield LV 2, 10 rpm
	Specific gravity	: 0.92 – 0.96	
	Assembly time	: 5 minutes	
	Initial set time	: 30 minutes	
	Final set time – low pressure application	: 4 hours	
	Final set time – high pressure application	: 24 hours	

*Note: Field working conditions may vary. In damp or humid weather allow longer set time

- FEATURES**
- For PVC and uPVC pipes
 - For pipes up to 200 mm diameter
 - Excellent adhesion

- APPLICABLE TESTS / STANDARDS**
- VT-301 meets the requirements of:
- MS 628-4:2015- Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure. Unplasticized Poly (Vinyl Chloride) (PVC-U) Part 4: Solvent Cement

APPLICATION Ideal for bonding and coupling of rigid PVC and uPVC pipes up to 200 mm diameter. Upon full cure, it is safe for drinking water, irrigation, waste water, sanitary pipes and conduit, etc.

- APPLICATION DIRECTION**
- Surfaces must be clean, dry and free of dirt, grease, oil or water.
 - Roughen mating surfaces to the full depth of socket using medium glass paper or emery cloth.
 - Apply the solvent cement to both surfaces to be bonded with a dry, clean brush to give a uniform coating, with heavier coat at the pipe end.
 - It will dissolve and soften the surfaces of the pipes and fitting. Assemble while cement is wet.
 - When the pipes and fitting are assembled together, the softened surfaces mix and on hardening produce a chemically welded joint.
 - Hold firmly for 30 seconds to allow initial bonding, then remove surplus solvent cement and should not be disturbed for 30 minutes.

CAUTION Contains tetrahydrofuran (THF), methyl ethyl ketone (MEK) and acetone. Highly flammable liquid and vapour. Causes serious eye irritation and may cause drowsiness or dizziness. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks and open flames. Avoid contact with eyes and skin. Wear suitable protective gloves and eye protection. Keep out of reach of children. Refer to the Safety Data Sheet (SDS) for detailed safety and health information.

LEGAL NOTES Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.