

# TEST REPORT

Ph: 909.472.4100 • Fax 909.472.4243 • Web: [www.iapmo.org](http://www.iapmo.org)  
5001 East Philadelphia Street • Ontario, California 91761-2816 - USA



**Report Number:** 1131-08002

**Report Issued:** October 17, 2008

**Project No.:** 15436

**Client:** Diversified Products  
13591 Cable Road  
Pataskala, OH 43062

**Contact:** Jeff Thomas

**Source of Samples:** The samples were shipped by the Diversified Products, and received by IAPMO R&T Lab on 09/02/2008 in good conditions.

**Date of Testing:** September 25, 2008 to October 17, 2008

**Product Description:** Spray PVC Solvent Cement, models SWCP100\* (purple) and SWCC100 (clear)

\* = tested sample

**Scope of Testing:** The purpose of testing was to determine if the Spray PVC Solvent Cement met the requirements of ASTM D2564-04e1, entitled "Standard Specification for Solvent Cements for Poly Vinyl Chloride (PVC) Plastic Piping Systems".

**Conclusion:** The samples tested of the Spray PVC Solvent Cement, models SWCP100 and SWCC100, from Diversified Products, COMPLIED with the requirements of ASTM D2564-04e1.

By our signatures below, we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested by,

Handwritten signature of Hanks Ninh in black ink.

Hanks Ninh, Project Engineer

Reviewed by,

Handwritten signature of Sean Vuu in black ink.

Sean Vuu, P.E., Manager, Specialty Projects

**ASTM D2564-04e1: sections tested:**

- 4. Materials and Manufacture
- 5. Requirements
- 6. Test Methods
- 7. Retest and Rejection
- 10. Container Labeling and Marking
- S1. Potable Water Requirement

**Note:** tests were conducted per written procedures outlined in the standard, any sections not mentioned above were considered not applicable to the subject product.

**ASTM D2564-04e1:**

**4. Materials and Manufacture:**

4.1 The solvent cement was a solution of the base PVC resin used to make Class 12454-B poly (vinyl chloride) molding or extrusion compound as defined in Specification D1784 (refer to section 5.2).

4.3 The cement was free-flowing and did not contain lumps, macroscopic undissolved particles, or any foreign matter what would adversely affect the ultimate joint strength or chemical resistance of the cement.

4.4 The cement showed no gelation. It showed no stratification or separation that could not be removed by stirring or shaking.

4.5 Insert fillers were added, and the resulting cement met all requirements of this specification.

**5. Requirements**

**5.1 Resin Content – COMPLIED**

The PVC content was 10.5% when tested in accordance with 6.1.

**5.2 Dissolution – COMPLIED**

The PVC cement was capable of dissolving an additional 3% by weight of PVC 12454-B compound (powder) at 73.4F without evidence of gelation.

**5.3 Viscosity – COMPLIED**

The PVC cement was classified as heavy-bodied type, based on its minimum viscosity when tested in accordance with 6.2.

Finding: the viscosity was: 5610 m.Pa.s.

5.4 Lap Shear Strength – COMPLIED

The average lap shear strength was found as follows:

- 355 psi after 2-h curing time.
- 762 psi after 16-h curing time.
- 950 psi after 72-h curing time.

5.5 Hydrostatic Burst Strength – COMPLIED

The hydrostatic burst strength, when tested in accordance with 6.3.3 was 480 psi after 2-h curing time.

6. Test Method – FOLLOWED

7. Retest and Rejection – FOLLOWED

10. Container Labeling and Marking – COMPLIED

Container labeling of cement included the following:

- a) “Manufactured for Future Tools, Pataskala, OH 43062”
- b) “ASTM D2564”
- c) “One-step Primer/Cleaner and Cement for PVC Pipe”
- d) Cement type “Heavy bodied cement”
- e) Instruction for application of the cement
- f) Lot number (N/A for prototype, will be available for production batch).
- g) “Certified to ANSI/NSF61”
- h) Warnings: ingredients, handling and distribution, intended use...

S1. Potable Water Requirement – COMPLIED

The product was in compliance with ANSI/NSF61 (refer to IAPMO R&T lab report No.: 1131-08001).

**Tested Samples**

