

Australian/New Zealand Standard™

**Solvent cements and priming fluids for
PVC (PVC-U and PVC-M) and ABS pipes
and fittings**



AS/NZS 3879:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 20 October 2006 and on behalf of the Council of Standards New Zealand on 3 November 2006.
This Standard was published on 20 December 2006.

The following are represented on Committee PL-021:

Australian Chamber of Commerce and Industry
Certification Interests (Australia)
CSIRO Manufacturing & Infrastructure Technology
Energy Networks Association
Engineers Australia
New Zealand Local Government
Master Plumbers, Gasfitters and Drainlayers New Zealand
New Zealand Water and Waste Association
Plastics Industry Pipe Association of Australia
Plastics New Zealand
Water Services Association of Australia

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 05482 CP.

Australian/New Zealand Standard™

**Solvent cements and priming fluids for
PVC (PVC-U and PVC-M) and ABS pipes
and fittings**

Originated as AS A185—1971 and AS 3691—1989.
AS A185—1971 revised and redesignated AS 3879(Int)—1991.
Previous edition AS/NZS 3879:1995.
AS/NZS 3879:1995 and AS 3691—1989 jointly revised as AS/NZS 3879:2006.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7893 3

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-021 for PVC, ABS and Polyamide Pipe Systems, to supersede AS/NZS 3879:1995, *Solvent cements and priming fluids for use with unplasticized PVC (uPVC) pipes and fittings* and AS 3691—1989, *Solvent cement and priming (cleaning) fluids for use with ABS pipes and fittings*.

The objective of this document is to provide a standard specification for use by manufacturers and purchasers of solvent cements and priming fluids.

In this edition the following changes have been made:

- (a) The scope has been widened to include PVC-M and ABS pipe systems and to include gap filling cements suitable for both pressure and non-pressure applications for joints which have a parallel/no or low interference fit.
- (b) The colour requirements have been revised.
- (c) The test requirements have been revised/changed.
- (d) An alternative method for application suitability, a viscosity test, has been added.
- (e) A sampling plan has been added.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Where there is an equivalent Australian and New Zealand Standard referenced in this Standard the New Zealand number is given in parenthesis following the Australian Standards number.

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 APPLICATION	4
3 REFERENCED DOCUMENTS.....	4
4 DEFINITIONS.....	5
5 CLASSIFICATION	5
6 GENERAL REQUIREMENTS.....	5
7 TEST REQUIREMENTS.....	6
8 PRIMING FLUIDS.....	7
9 PACKAGING	7
10 MARKING	7

APPENDICES

A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	8
B STRENGTH DEVELOPMENT TEST	11
C TYPE P AND G JOINT STRENGTH TEST	17
D TYPE N AND G JOINT STRENGTH TEST.....	21
E SPREADABILITY TEST.....	23
F DETERMINATION OF VISCOSITY	27

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and
ABS pipes and fittings****1 SCOPE**

This Standard specifies the requirements for solvent cements and priming fluids used in the jointing of tapered/interference and parallel/no or low interference fit polyvinyl chloride (PVC-U and PVC-M) and acrylonitrile butadiene styrene (ABS) pipes and fittings for both pressure and non-pressure applications.

NOTE: Methods of demonstrating compliance with this Standard are given in Appendix A.

2 APPLICATION

Solvent cements and priming fluids made in accordance with this Standard are intended for use with pipes, fittings and conduits complying with AS/NZS 1254, AS/NZS 1260, AS 1464, AS/NZS 1477, AS/NZS 4765 and AS/NZS 3518.

NOTE: For ABS pipes and fittings for non-pressure applications also refer to WSA 117.

For the recommended procedures for jointing PVC-U, PVC-M and ABS pipe systems using solvent cement, reference should be made to AS/NZS 2032 (PVC-U and PVC-M) and AS 3690 (ABS), and the manufacturer's installation instructions.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199	Sampling procedures for inspection by attributes
1199.1	Part 1: Sampling schemes indexed by acceptable quality level (AQL) for lot-by-lot inspection
1464	Plastics pipes and fittings for gas reticulation—Unplasticized PVC (UPVC)
2382	Surface roughness comparison specimens
3500	Plumbing and drainage
3500.0	Part 0: Glossary of terms
3690	Installation of ABS pipe systems

AS/NZS

1254	PVC pipes and fittings for storm and surface water applications
1260	PVC-U pipes and fittings for drain, waste and vent application
1477	PVC pipes and fittings for pressure applications
2032	Installation of PVC pipe systems
3518	Acrylonitrile butadiene styrene (ABS) compounds, pipes and fittings for pressure applications
4020	Testing of products for use in contact with drinking water
4765	Modified PVC (PVC-M) pipes for pressure applications