

VALTRON® - Temporary Adhesive System - Water Removable**VALTRON AD 4010-A RESIN
VALTRON AD 4015-B HARDENER****Features**

- ⇒ Cure time of 3 hours at room temperature
- ⇒ Easily debonded with hot water
- ⇒ Removes completely from all bonding surfaces with VALTRON alkaline detergent
- ⇒ Available in various packaging systems

Description

The VALTRON Temporary Adhesive System is a two component epoxy system consisting of VALTRON AD 4010-A resin and VALTRON AD 4015-B hardener. The room temperature cure time for this adhesive is app. 3 hours. The fast curing adhesive system effectively adheres materials to dicing substrates and allows for quick and efficient removal.

Typical Physical Properties

Specific Gravity (@ 20° C):	AD 4010-A	1.03 g/cc
	AD 4015-B	1.14 g/cc
Color:	AD 4010-A	White
	AD 4015-B	Yellow
Viscosity (Brookfield Model):	AD 4010-A	275.000 cps @ 25° C
	AD 4015-B	11.500 cps @ 25° C

Packaging

- ⇒ 5 gallon pail
- ⇒ 4x1 gallon case
- ⇒ One gallon container
- ⇒ One pint can
- ⇒ Pre-measured syringe

VALTRON[®] - Temporary Adhesive System - Water Removable**VALTRON AD 4010-A RESIN
VALTRON AD 4015-B HARDENER****Application**

- Step 1** Thoroughly clean the surfaces to be adhered using Isopropyl Alcohol or Acetone.
- Step 2** Accurately weigh the two adhesive components into a mixing cup using 100 parts by weight of the resin, AD 4010-A and 52 parts by weight of the hardener, AD 4015-B.
- Step 3** Thoroughly mix the two adhesive components until a uniform color is achieved.
- Step 4** Apply a thin uniform layer of the adhesive onto the surface of the self-dressing dicing block to be mounted.
- Step 5** Place the substrates to be diced onto the adhesive layer.
- Step 6** Allow adhesive to cure for app. 45 min. at app. 43° C (110° F) maximum or 3 hours at room temperature.

Demounting/Removal

The VALTRON Temporary Adhesive System is designed to provide a temporary bond during the dicing process. Following dicing, the adhesive must be removed from the diced parts. The unique properties of this adhesive system allow for removal of the epoxy adhesive using a heated VALTRON detergent solution. This process allows the diced part to be cleaned of epoxy, coolant and kerf in a simple procedure.

- Step 1** Place diced substrates into boiling deionized water for app. 4 min.
- Step 2** Carefully remove diced glass from the hot water.
- Step 3** Place diced glass into a 4.0% solution of VALTRON SP 2200 heated to app. 71° C (160° F)
- Step 4** Remove components from detergent solution and spray rinse with DI water or use an ultrasonic deionized water bath app. 2 min. at app. 71° C (160° F).

Manufacturer: **VALTECH CORPORATION**
Supplier: **N. BUCHER AG**, Pfadackerstrasse 9, 8957 Spreitenbach/Switzerland
Phone: ++41-56 418 19 90
Fax: ++41-56 418 19 99
<mailto:info@nbucherag.com>

Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, user should determine the suitability of the product for his intended use and user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without a license.

VALTRON is a registered trademark of the Valtech Corporation.

2/15/05