

AquaWeld™ 182

1-Component , Waterbased Acrylic Pressure Sensitive Adhesive

AquaWeld™ 182 adhesive is a high performance, water-based adhesive designed for the general purpose bonding of fiberboard, paper, cloth, fabric, leather, wood, and many other materials to themselves and to other substrates.

Many variations on the standard AquaWeld™ 182 Adhesive are possible including custom colors, alternate dry times, modified viscosities, and many other special properties. Please contact us to discuss your application if you think such a variant would be helpful for your application.

APPLICATIONS & BENEFITS:

- Excellent adhesive strength
- Dries Clear
- Tough, flexible bonds

HANDLING PROPERTIES	VALUE	TEST METHOD
Visual Appearance	Milky white liquid (can be supplied in colors)	
Specific gravity – lbs. /gallon	8.2 – 8.9	ASTM E-201
Viscosity at 25°C	2,000 - 8000 cps	ASTM D-2393
Percent Solids (non-volatile %)	56% - 66%	
Drying time:	Clamp items to be bonded together for at least 4-8 hours at room temperature and <50% relative humidity. Functional drying (ex. Bonds strong enough to produce fiber tears in wood) will have developed after 8 hours, but the adhesive bond will improve further with additional time. High humidity levels during drying may extend the dry time.	

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Color (when dry)	Clear	Visual
Peel Strength	>10 pli	
Lap Shear Strength (plywood, 3/4" thick) @ 25C	>600 psi	ASTM D906
Flexibility – adhesive film on steel plate bent 180 degrees	show no cracking or delamination	

NOTE: Values are based on laboratory or average production results – not for specification purposes.

SUGGESTED PROCESSING GUIDELINES:

Apply by brush, roller, dipping or spraying. If spraying, the emulsion may be thinned with small amounts of warm, di-ionized water to produce a lower viscosity. However, the addition of water will reduce the solids content and will increase the dry time.

Apply to both surfaces to be bonded and then place the items in firm contact and clamp firmly in place with even pressure over the surface.

STORAGE GUIDELINES:

Store this material in a clean, cool and dry environment in its tightly closed original container. Keep from freezing and if frozen immediately warm to room temperature rather than allowing to remain frozen. Tightly reseal containers after use to prevent evaporation. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

Aquaweld™ 182

WARNING: AS WITH ALL INDUSTRIAL MATERIAL USE CAUTION WHEN WORKING WITH THIS MATERIAL. Avoid breathing vapors. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Extending exposure could cause a slight irritation of the nasal passages, eyes, or skin. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supercedes Buyer's documents. SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

Specialty Polymers & Services, Inc. (SP&S)

27822 Fremont Court

Valencia, CA 91355

www.spolymers.com

Tel: 661-294-1790

Fax: 661-294-0640

info@spolymers.com