



WET SURFACE / UNDERWATER
AQUAMEND™
HAND KNEADABLE
EPOXY REPAIR PUTTY

PRODUCT DATA
#9700

06/21/07
superseding: 04/24/06

PRODUCT DESCRIPTION:

AQUAMEND™ is a hand-kneadable, specialty epoxy putty that mixes in just one minute for permanent repairs to damp, wet areas and underwater substrates. **AQUAMEND™** contains a fading blue dye and becomes fiberglass white after mixing. It may be applied underwater, in either fresh or salt water, and will bond tenaciously to substrates such as fiberglass, metal, wood, concrete, ceramic, glass, etc. **AQUAMEND™** will not yellow when exposed to U.V. After final cure, **AQUAMEND™** may be carved, drilled, sawed, sanded, filed, lapped, machined, stained or painted.

PRODUCT USES:

AQUAMEND™ molds like clay and may be used to patch dings, scratches, cuts, gouges and holes in fiberglass, metal and wooden boat decks and hulls; to repair fittings, pipes, electrical connections, leaking gaskets, water tanks, fish boxes, tubs, battery cases, sinks, spas, hot tubs, tanks, pools; to form custom gaskets, etc.

CHEMICAL RESISTANCE:

AQUAMEND™ is resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.

SURFACE PREPARATION:

For best results, clean and roughen bond area prior to application.

DIRECTIONS:

Wash hands to prevent product from discoloring. Twist or cut off required amount. To mix, knead with fingers to a uniform color. Apply to surface to be repaired within 2 minutes of mixing. The mixed epoxy does not exhibit high bond strength at this point but appears to be merely lying on the surface. Force into any cracks or holes to be filled and strike off excess material. When applying to a damp, wet or slowly leaking area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect. If material sticks to fingers, use a piece of plastic to press the material into place. For smooth appearance of the cured compound, hand rub with water or a damp cloth prior to hardening. After 20-30 minutes the epoxy will harden and form a tenacious bond. After just 60 minutes, the item can be put back into service.

AQUAMEND is ideal for making emergency in-water repairs. The unused portion will remain stable for years if stored in original container at room temperature.

HEALTH PRECAUTIONS:

When mixing by hand, **AQUAMEND™** does not cause skin irritation to individuals with normal skin sensitivity. Individuals with extra skin sensitivity should maintain caution and wash hands thoroughly after mixing the compound or wear thin plastic gloves. **AQUAMEND™** has been classified non-toxic & non-skin irritating to experimental animals when tested to the requirements of the Federal Hazardous Substances Labeling Act.

Clean Up:

Clean up all spills, tools and overspray immediately while the coating is still wet with warm soapy water.

PHYSICAL PROPERTIES and TECHNICAL DATA

Work Life, Minutes	20-30	
Shelf Stability @ 75° F, Months (minimum)	12	
Hardness, Shore D (full cure, 24 hours)	65-75	ASTM D-2240
Lap Shear Tensile Strength on Steel, Lbs. (1" x 1" x 1/16")	800-1000	ASTM D-1002
Temperature Limitations, ° F		
Continuous	250	
Intermittent	300	
Electrical Resistance, Megohms	30,000	ASTM D-257
Dielctric Strength, v/mil	300	ASTM D-149
Shrinkage, %	<1	ASTM D-2566
Non-Volatile Content, %	100	
Compressive Strength, lbs/in ²	12,000	ASTM D-695

COLOR: "Fiberglass" White Color after Cure
 PACKAGING Per Tube or 12 to a Case

SIZE: 4 Ounce Reusable Tubes
 SOLIDS: 100%

In Any Event Nationwide Protective Coating Manufacturers, Inc. will not be liable or responsible for any past, present or future leaks or any resulting consequential or incidental damages.



MATERIALS HEALTH, SAFETY AND ENVIRONMENTAL DATA SHEET

MSDS
#9700

PRODUCT AND COMPANY INFORMATION	Product Name:	AQUAMEND						Code #: 9700
	Hazard Rating:	Health: 1 Fire: 1 Reactivity: 0 PPI: B						Date Effective: June 1st, 1998
INGREDIENT AND HAZARD INFORMATION	Company Identification:	Nationwide Chemical Coating Manufacturers, Inc. 7106 24th Court East Sarasota, Florida 34243						
	Telephone/fax:	(941) 753-7500 (941) 753-1773						
CHEMICAL AND PHYSICAL PROPERTIES	Emergency Phone:	(800) 423-7264						
	Shipping Name/Class:	Putty, NMFC 150110						
FIRE AND EXPLOSION HAZARD DATA	Hazardous Ingredients	CAS Number	%	TSCA	Health	Fire	React	P
	Glycidyl ethers of bisphenol A resins	25068-38-6	7-13	Y	2	1	0	B
HEALTH HAZARD DATA	Epoxy resins	028064-14-4	5-10	Y	1	1	0	B
	Zinc sulfide	1314-98-3	5-10	Y	1	0	0	E
STABILITY AND REACTIVITY DATA	Polymeric phenolic amine	32610-77-8	1-5	Y	3	1	0	D
	*** all ingredients in this product are listed in the T.S.C.A. Inventory							
SPILL AND LEAK PROCEDURES	Appearance/Color:	Green/White	Form:	Putty				
	Solubility (in water):	Insoluble	Odor:	Amine, Fishy				
WASTE DISPOSAL METHOD:	VOC:	<1.0%	% Volatile:	< 1.0%				
	Specific Gravity:	1.9						
FIRE AND EXPLOSION HAZARD DATA	Flammability Class:	IIIB	Flash Range:	Not Applicable				
	EXTINGUISHING MEDIA:	Water spray, foam, CO2, dry chemicals						
HEALTH HAZARD DATA	UNUSUAL HAZARDS:	CO, aldehydes, acids, oxides of sulfur and nitrogen may be formed.						
	FIRE FIGHTING:	Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self contained breathing apparatus and full protective clothing.						
HEALTH HAZARD DATA	Lethal Dose Information (mg/kg)		Oral	Skin	Inhale	LC5		
	Glycidyl ethers of bisphenol A resins	RAT	11400.00	20.00	N/est	N/est		
HEALTH HAZARD DATA	Epoxy Resins	RATS	4000.00	N/est	N/est	N/est		
	Zinc Sulfide	N/est	N/est	N/est	N/est	N/est		
HEALTH HAZARD DATA	Polymeric phenolic amine	RAT	2200.00	2000.00	N/est	10.00		
	PERMISSIBLE EXPOSURE LEVEL:	N/A						
HEALTH HAZARD DATA	EFFECTS OF OVEREXPOSURE:	Inhalation:	None					
		Ingestion:	Irritation of Intestinal Tract					
HEALTH HAZARD DATA		Skin Contact:	Possible irritant and sensitizer					
		Eye Contact:	Possible irritant and sensitizer					
HEALTH HAZARD DATA	FIRST AID:	Inhalation:	Remove to fresh air					
		Ingestion:	Seek Medical Advice					
HEALTH HAZARD DATA		Skin Contact:	Wash with soap and water					
		Eye Contact:	Flush with water, consult a physician					
HEALTH HAZARD DATA	NOTE: Never give anything by mouth to an unconscious person							
	Stability:	This product is stable						
HEALTH HAZARD DATA	Hazardous Polymerization:	Hazardous Polymerization will not occur						
	INCOMPATIBILITY:	None						
HEALTH HAZARD DATA	CONDITIONS TO AVOID:	None						
	HAZARDOUS DECOMPOSITION PRODUCTS:	CO, aldehydes, acids, oxides of sulfur and nitrogen						
WASTE DISPOSAL METHOD:	STEPS TO BE TAKEN:							
	Spills or Leaks:	Dispose of in normal matter						
WASTE DISPOSAL METHOD:	WASTE DISPOSAL METHOD:							
	Incinerate in furnace or bury in landfill according to applicable regulations, not a hazardous waste							

CONTROLS AND PERSONAL PROTECTION	OCCUPATIONAL EXPOSURE LIMITS	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
	Glycidyl ethers of bisphenol A resins	N/est	N/est	N/est	N/est	N/est
CONTROLS AND PERSONAL PROTECTION	Epoxy resins	N/est	N/est	N/est	N/est	N/est
	Zinc sulfide	5.00 mg/M3	N/est	N/est	N/est	5.00 mg/M3
CONTROLS AND PERSONAL PROTECTION	Polymeric phenolic amine	N/est	N/est	N/est	5.00 ppm	5.00 ppm
	PROTECTIVE EQUIPMENT TYPES:					
CONTROLS AND PERSONAL PROTECTION	Eyes:	Safety Glasses				
	Respiratory:	None required unless sanding or abrading				
CONTROLS AND PERSONAL PROTECTION	Gloves:	Appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.				
	Other:	None required				
CONTROLS AND PERSONAL PROTECTION	VENTILATION:					
	General Mechanical:	None required				
CONTROLS AND PERSONAL PROTECTION	Local Exhaust:	Only if heated above 100 degrees Fahrenheit (38 Celsius)				
	HANDLING:					
HANDLING AND STORAGE	Storage Temperature:	< 90 degrees Fahrenheit (32 Celsius)				
	Storage Conditions:	Store in a cool, dry, well ventilated area				
HANDLING AND STORAGE	Transfer:	No special precautions are needed. Follow good manufacturing and handling practices.				
	Personal Hygiene:	Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves. Professionally launder contaminated clothing before re-use.				
HANDLING AND STORAGE	Recommended Waste Disposal:	Dispose of in accordance with Federal, State and Local guidelines.				
	SARA TITLE III SECTION 313:					
HANDLING AND STORAGE	This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:					
	CAS Number	Chemical Name	%			
HANDLING AND STORAGE	1314-98-3	Zinc Sulfide	5-10			
	32610-77-8	Polymeric phenolic amine	1-5			
HANDLING AND STORAGE	Right-To-Know:					
	The non-hazardous ingredients in this product subject to the Pennsylvania, New Jersey, and/or Massachusetts Right-To-Know laws are:					
HANDLING AND STORAGE	CAS Number	Chemical Name				
	14807-96-6	Magnesium Silicate Hydrate				
HANDLING AND STORAGE	Trade secret	Polyether Polymercaptan				
	65997-17-3	Sodium Calcium Magnesium Silicate				
HANDLING AND STORAGE	NOTE:					
	USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees as the case may be.					
HANDLING AND STORAGE	DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.					

Format Based on O.S.H.A. Form 20. Information presented herein has been compiled from sources to be reliable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so.