



ARMORSTONE LIQUID STONE SYSTEM TECHNICAL DATA

MATERIAL PROPERTIES

COLORS: Nine standard colors, custom colors available
VEHICLE TYPE: Water-based acrylic
SOLIDS BY VOLUME: 75%
WEIGHT: 13.5 lbs. per gallon
VOLATILE ORGANIC COMPOSITION: Non-Toxic
FLASH POINT: Non-Combustible
SURFACE BURNING CHARACTERISTICS: ASTM E84-CAN/ULC-5101M
FLAME SPREAD: 0
DRY TIME @ 24C: 20 minutes to touch
THINNER: Not Recommended
ABRASION RESISTANCE: No Cracking or Loss of film – integrity (ASTM D-968)
ABSORPTION: 1.5 (ASTM C-67-81)
ACCELERATED WEATHERING: 4,000 hours without blistering or cracking (ASTM G-23)
ACID RESISTANCE: Sulfuric, Nitric, Hydra – 6 hours acid, 2 hour dry – no blistering, cracking, wrinkling or lifting (CGSG 1-GP-71)
ADHESION: Passed ASTM D4541 - (330 psi after 7 days)
FREEZE/THAW: No change after 50 cycles. ASTM C-67
HEMISPHERICAL SPECTRAL REFLECTION: Over cement board 82% (ASTM E903-82)
TOTAL EMITTANCE: Over cement 0.88 (ASTM E408-71)
MILDEW RESISTANCE: No Growth after 45 Days MIL. STD. 810C
SALT SPRAY: 2,000 hours – No deleterious effect. ASTM B117
WATER VAPOR TRANSMISSION: 2.3 Perms (finish) / 2.6 Perms (primer)

MATERIAL TESTING RESULTS:

The following tests have been successfully performed and met or exceeded the following criteria.

ASTM G 23-81 Accelerated Weathering Test
ASTM E-84 Burning Test – Surface/Tunnel Test
ASTM B-117 Salt Spray Fog Test
ASTM E-96 Vapor Transmission Test
ASTM D-1037 and EIMA 101.86 Impact Resistance Test
ASTM D-968/81 Abrasion Resistance Test
ASTM 1640-83 Dry Time
ASTM E-96-80 Permeability

ARMORPOXY
939 LEHIGH AVE, UNION, NJ 07083

888-755-7361 FAX 888-755-6231
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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL INFORMATION AND USE

MATERIAL NAME: ARMORSTONE PRIMER

SUPPLIER: ARMORPOXY/SPECIALLY COATINGS INC.
939 LEHIGH AVE, UNION, NJ 07083 908-810-9613
EMERGENCY PHONE: CHEMTREC 800-424-9300

WHIMS CLASSIFICATION: D2B

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Chemical & Common Names of Hazardous Material:

*** Chemical identity withheld as a Trade Secret ***

This material is not expected to cause physiologic impairment at typical usage concentrations.

<u>Hazardous Ingredient</u>	<u>Concentration WT%</u>	<u>CAS, NA or UN No.</u>	<u>TLV</u>	<u>LC50/LC50</u>
Mildewcide	0.5%	26530-20-1	none (exempt under TCSA)	
Other	1.5%	N/A	N/A	

SECTION III - PHYSICAL DATA FOR MATERIAL

<u>Physical State (c)</u> viscous liquid	<u>Odour / Appearance</u> Ammonia / white	<u>Boiling Point</u> 899 (decomp)
<u>Solubility (water)</u> miscible	<u>PH</u> not available	<u>% Volatile (v/v)</u> not available

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flammable: YES ___ NO X
Other parameters not applicable

SECTION V - REACTIVITY DATA

Chemical Stability: YES X NO ___

Incompatibility, reactivity, and hazardous decomposition products: all parameters not applicable

Toxicological Properties of Material

Route of Entry: Inhalation - acute
Inhalation - chronic
Ingestion
Skin Contact
Eye contact

INHALATION of vapor, mist, or dust can cause irritation to nose and throat, coughing, or sneezing. Chronic long-term inhalation of crystalline silicas in quantities exceeding 1% airborne concentrations can increase the risk of developing silicosis, a disabling lung disease. Silicosis is characterized by cough, production of sputum, dyspnea, wheeze, silicotic nodules on lungs, and impaired pulmonary function.

INGESTION: Material can be harmful if swallowed.

** The ingredients in this product are not reproductive toxins, and are not mutagenic or teratogenic.

SECTION VI - PREVENTATIVE SAFETY MEASURES

Personal Protective Equipment:

Gloves (type): Use gloves and protective clothing made of material which has been found by the user to be impervious under conditions of use.

Eye Protection: Safety glasses with side shields or face mask with side panels are recommended to prevent eye contact.

Respiratory: If required by job conditions, a particulate mask or NIOSH/MSHA is recommended.

SECTION VII - FIRST AID MEASURES

Skin:

Flush skin with running water and wash affected areas thoroughly with soap and water. Start flushing while removing contaminated clothing. Obtain medical attention without delay if any adverse reactions are noted.

Eyes:

Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.

Inhalation:

Move victim to fresh air. Give artificial respiration only if breathing has stopped. Give CPR only if there is no pulse or breathing. Obtain medical attention immediately.

Ingestion:

If victim is alert and not convulsing, give 1/2 to 1 glass of water to dilute material. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid inhaling vomitus, rinse mouth and administer more water. Obtain medical attention immediately.

General:

Treat symptomatically.

SECTION IX - PREPARATION DATE OF MSDS

Prepared by Daich Coatings Corporation., January 27, 2006

The information in this MSDS was obtained from sources understood to be reliable. However, the information is provided without any representation or warranty, expressed or implied, in regard to accuracy.

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense connected with handling or use of the product.

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL INFORMATION AND USE

MATERIAL NAME: ARMORSTONE LIQUID STONE

SUPPLIER: ARMORPOXY/SPECIATLY COATIONGS INC.
939 LEHGH AVE, UNION, NJ 07083 908-810-9613
EMERGENCY PHONE: CHEMTREC 800-424-9300

WHIMS CLASSIFICATION: D2B

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Chemical & Common Names of Hazardous Material:

*** Chemical identity withheld as a Trade Secret ***

This material is not expected to cause physiologic impairment at typical usage concentrations.

<u>Hazardous Ingredient</u>	<u>Concentration WT%</u>	<u>CAS. NA or UN No.</u>	<u>TWA / TLV ACGIH</u>	<u>OSHA</u>	<u>LC50/LC50</u>
Silicon Dioxide	31	14808-60-7	0.10 mg/m3	10/(%SiO2+2) mg/m3	N/E - N/E

SECTION III - PHYSICAL DATA FOR MATERIAL

<u>Physical State</u>	<u>Solubility</u>	<u>Odor / Appearance</u>
Slurry	Miscible	Ammonia / White
<u>PH</u>	<u>Boiling Point</u>	<u>% Volatile</u>
7.5 - 10	N/A	N/A

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flammable: YES ___ NO X
Other parameters not applicable

SECTION V - REACTIVITY DATA

Chemical Stability: YES X NO ___

Incompatibility, reactivity, and hazardous decomposition products: all parameters not applicable

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General:

Treat symptomatically.

SECTION IX - PREPARATION DATE OF MSDS

Prepared by Daich Coatings Corp., December 3, 2005

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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL INFORMATION AND USE

MATERIAL NAME: ARMORSTONE SEALER TOPCOAT

SUPPLIER: ARMORPOXY/SPECIATLY COATIONGS INC.
939 LEHGH AVE, UNION, NJ 07083 908-810-9613
EMERGENCY PHONE: CHEMTREC 800-424-9300

WHIMS CLASSIFICATION: D2B

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

CHEMICAL & COMMON NAMES OF HAZARDOUS MATERIAL:

<u>Hazardous Ingredient</u>	<u>Exposure Levels</u>	<u>CAS, NA or UN No.</u>	<u>LC50/LD50</u>
DIETHYLENE GLYCOL MONOBUTYL ETHER	3 PPM	112-34-5	5660 mg/kg

SECTION III - PHYSICAL DATA

PHYSICAL STATE: LIQUID
ODOUR: Urethane
APPEARANCE: THICK, WHITE MILKY APPEARANCE
BOILING POINT: >100 DEGREES CENTIGRADE
VAPOUR DENSITY/PRESSURE: NOT APPLICABLE
PH: 6
FREEZING POINT: 0 DEGREES CENTIGRADE

SECTION IV - FIRE AND EXPLOSION HAZARDS

FLAMMABLE: YES _____ NO X
OTHER PARAMETERS NOT APPLICABLE

SECTION V - REACTIVITY / FIRE AND EXPLOSION DATA

CHEMICAL STABILITY: STABLE

FLAMMABILITY: NON-FLAMMABLE
SPECIAL FIRE FIGHTING MEASURES: N.A.
HAZARDOUS COMBUSTION: N.A.

EXTINGUISHING MEDIA: WATER/FOAM/DRY CHEMICAL
EXPLOSION DATA: N.A.
FLASH POINT: N.A.

INCOMPATIBILITY WITH OTHER SUBSTANCES: NONE REASONABLY FORSEEABLE

SECTION VI - TOXICOLOGICAL PROPERTIES

CARCINOGENIC, REPRODUCTIVE, TERTOGENIC OR MUTAGENIC EFFECTS: NONE
SENSITIZATION: MAY CAUSE DIZZINESS AND VOMITTING
IRRITANCY OF MATERIAL: IRRITANT TO EYES
ROUTE OF ENTRY: INHALATION, EYES, INGESTION
SENSITIZATION: MAY CAUSE DIZZINESS AND VOMITTING
SYNERGISTIC MATERIALS.....NONE
ACUTE EXPOSURE EFFECTS: IRRITATION TO EYES, LUNGS, NOSE AND THROAT
CHRONIC EXPOSURE EFFECTS: NOT AVAILABLE

SECTION VII - PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: NONE REQUIRED
SKIN: RUBBER GLOVES (PROTECTIVE CLOTHING AND FOOTWEAR NOT REQUIRED)
RESPIRATORY: NONE REQUIRED
VENTILATION: ADEQUATE AIR CIRCULATION

SECTION VIII - FIRST AID MEASURES

SKIN: WASH WITH SOAP AND WATER EYES: FLUSH EYES WITH WATER FOR 20 MINUTES
INHALATION: MOVE TO FRESH AIR INGESTION: DRINK 3 GLASSES OR WATER

SECTION IX - STORAGE AND HANDLING

SPECIAL HANDLING PROCEDURES: NONE REQUIRED
STORAGE: AVOID FREEZING
SMALL SPILLS: FLUSH WITH ADEQUATE WATER UNTIL
LARGE SPILLS: REMOVE AND DISPOSE
WASTE DISPOSAL: PERFORM IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT REGULATIONS.

SECTION IX - ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL TOXICITY: NO APPLICABLE DATA.

SECTION X - TRANSPORT INFORMATION

SPECIAL SHIPPING INSTRUCTIONS: NONE

SECTION XI - PREPARATION OF MSDS

PREPARED BY DAICH COATINGS CORP., September 30, 2005

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