

MATERIAL SAFETY DATA SHEET

REVISION: 2/3/93

HMIS
HEALTH 2
FIRE 0
REACTIVITY 0
PPE X

SECTION I

IDENTITY: E-Z PATCH® # 7 REBAR RUST REPAIR CEMENT DRY MIX

SECTION II - Hazardous Ingredients/Identity Information

	<u>% wgt</u>	<u>ACGHI TLV (a)</u>	<u>OSHA PEL</u>
Silica crystalline quartz (CAS 14808-60-7)	55-60	0.1mg/m ³ (respirable)	(b)
Portland Cement (CAS 65997-15-1)	40-45	10mg/m ³ (total dust)	10mg/m ³ (total) 5mg/m ³ (respirable)
Calcium Carbonate	1-5	10mg/m ³ (total dust)	5mg/m ³ (respirable) 15mg/m ³ (total)

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications. gt=greater than, lt=less than, ca=approximately

SECTION III – Physical Data

Boiling Point: No data available. All ingredients have extremely high M.P. & B.P.
Vapor Pressure (mmHg at 20°C): Not applicable. Solid at all service temperatures.
Vapor Density (air = 1): Not applicable
pH: No data for this mixture. Ingredients are strongly alkaline when mixed with water.
Specific gravity: No data for this mixture.
% Volatile by Volume: Not applicable
Appearance and Odor: Medium to dark gray powdered solid. No particular odor.
Solubility in Water: Slight

SECTION IV - Fire and Explosion Hazard Data

Flash Point (and method): Not applicable. Product will not burn.
Autoignition temp: Not applicable
Flammable limits (STP): Not applicable
Extinguishing media: Not applicable
Special fire fighting protective equipment: Not applicable
Unusual fire and explosion hazards: None

SECTION V – Reactivity Data

Stability: Stable. Product reacts (hydrates) at a slow, controlled rate when mixed with water releasing minimal heat. Not a hazardous reaction.
Incompatibility (materials to avoid): Strong oxidizing agents such as strong organic and inorganic acids. Acids will react with cement, lime, and carbonates.

SECTION V – Reactivity Data (Cont'd)

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

SECTION VI – Health Hazard Assessment

- General:** No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.
- Ingestion:** No toxic effects are known to be associated with ingestion of this material. May cause irritation to the digestive tract if ingested.
- Eye Contact:** This material can irritate and may burn eyes following direct contact. The aggregate particles may cause abrasions to the cornea.
- Skin Contact:** Dryness, itching, rashes and burns can develop following contact with skin. Skin abrasions can occur if material is rubbed against the skin. Dermatitis and skin sensitization can develop after repeated and/or prolonged skin contact.
- Skin Absorption:** This material is not absorbed through skin contact and no systemically toxic effects are known via this route.
- Inhalation:** Product contains crystalline quartz (“free”) silica. Repeated inhalation of silica in excess of the TLV over extended periods can result in irreversible fibrosis of the lungs (silicosis). Over-exposure to dusts can irritate the respiratory tract and can cause damage to the mucous membranes of the upper respiratory tract. IARC has associated high exposure to crystalline silica with cancer in laboratory animals.
- Other Effects of Overexposure:** No other adverse clinical effects are known to be associated with exposure to this material.
- First Aid Procedures:**
- Skin:** Rinse skin free of material with water to avoid abrasion of the skin. DO NOT RUB until skin is free of material then wash thoroughly with soap and water. If redness, itching, burning or other symptoms develop or persist seek medical attention. Remove and decontaminate clothing and footwear before reuse.
- Eyes:** DO NOT RUB EYES. Rinse immediately with plenty of water. If irritation persists consult a physician immediately.
- Ingestion:** Give one or two glasses of water to drink and refer to medical personnel.
- Inhalation:** Remove to fresh air. If cough, irritation, difficulty in breathing or other respiratory symptoms persist or develop consult a physician.
- Note to Physician:** Mucosal injury following ingestion of this material may contraindicate the induction of vomiting in the treatment of possible ingestion.

SECTION VII – Spill or Leak Procedures

- Steps to be taken in case material is spilled or released:**
 Keep unnecessary people away. Follow personal protection procedures (Section VIII) when cleaning up spills. Collect spilled powder by dustless methods and place in containers. If necessary, dike spills of mixed material with absorbent material and shovel into waste containers. Avoid generating dusts. Wet material may be slippery. Use caution to avoid falls.
- Disposal Method:**
 Reuse powder or mixed material if uncontaminated. Discarded product and hardened mortar are non-hazardous wastes under RCRA (40 CFR, Part 261). Dispose of as non-hazardous waste in compliance with federal, state and local regulations.
- Container Disposal:**
 Empty containers may retain small amounts of residual product. Observe all hazard precautions and personal protection recommendations when handling empty containers. Dispose of as non-hazardous waste in compliance with applicable regulations.

SECTION VIII – Special Protection Information

- TLV or suggested control value:**
 No TLV assigned to this mixture. Minimize exposure in accordance with good hygiene practice (See sections II for TLV's and PEL's)
- Ventilation:**
 Use local exhaust when possible to keep exposure below applicable exposure limits for silica, portland cement, and nuisance dusts.
- Respiratory protection (specify type):**
 Where exposure to dusts from this product may exceed the applicable exposure limits a MSHA-NIOSH approved respirator for the dust should be used.

SECTION VIII – Special Protection Information (Cont'd)

Protective Clothing:

Gloves and protective clothing recommended to avoid skin contact.

Eye Protection:

Full faceshield or chemical tight goggles recommended to avoid splashing in eyes while handling, mixing, placing or as long as splash hazard exists. Safety glasses recommended if grinding, cutting, etc. of hardened material is required.

Other Protective Equipment:

Provide eyewash station or other suitable means of cleansing eyes and skin in emergencies.

SECTION IX – Special Precautions or Other Comments:

Precautions to be taken in handling or storing:

Store in a cool dry area off ground. Avoid contact with acids and other oxidizers. Minimize generation of dusts. Avoid skin and eye contact. Avoid breathing dusts. A sensitized individual should not be exposed to the product which causes sensitization.

Disclaimer: E-Z Products believes the information contained herein is accurate. However, E-Z Products makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained by the use thereof. E-Z Products assumes no responsibility for injury from the use of the product described herein.

SECTION I

IDENTITY: E-Z PATCH® LIQUID ACRYLIC BONDER

Hazard Summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical Hazards: None

Health Hazards: Based on acrylic emulsion, mild irritant (eye, skin) from direct contact, irritant, nose, throat and lungs from Inhalation of spray mists or generated during spray application of liquid acrylic bonder modified cement-based mixes.

Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION II - Hazardous Ingredients/Identity Information

	<u>% wgt</u>	<u>ACGHI</u> <u>TLV</u>	<u>OSHA</u> <u>PEL</u>
Acrylic polymer in aqueous emulsion (NR)	ca 28 (Solids)	NE	NE
Ammonia (7664-41-7)	lt 0.15	25ppm 35ppm STEL	35ppm STEL

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications. gt=greater than, lt=less than, ca=approximately, NR=Not Required, NE=Not Established, STEL=Short Term Exposure Limit.

SECTION III – Physical Data

Boiling Point: 212°F (water) Freezing Point: 32°F (water)
 Vapor Pressure (mmHg at 20°C): = 17 (water)
 Vapor Density (air = 1): Heavier
 pH: 9.2 – 10.0
 Specific gravity: 1.02
 % Volatile by Volume: ca 72% (water)
 Appearance and Odor: Milky white liquid. Water like consistency. Slight ammonia odor.
 Solubility in Water: Dilutable

SECTION IV - Fire and Explosion Hazard Data

Flash Point (and method): NA (Non-Combustible)
 Autoignition temp: NA
 Flammable limits (STP): NA
 Extinguishing media: Non-combustible.
 Special fire fighting protective equipment: MSHA/NIOSH approved self-contained breathing apparatus. See next Paragraph and Section V, “Hazardous de-composition products” for further explanation.
 Unusual fire and explosion hazards: Acrylic emulsions will not burn. They may splatter if temperature exceeds boiling point (212°F). Dried polymer films are capable of burning.

SECTION V – Reactivity Data

Stability: Stable
 Incompatibility (materials to avoid): Not applicable
 Hazardous Decomposition Products: Thermal decomposition may yield oxides of carbon.
 Hazardous Polymerization: Will not occur

SECTION VI – Health Hazard Assessment

General: No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.
 Ingestion: Relative to other materials, a single dose of this product is practically non-toxic by ingestion. Based on acute

SECTION VI – Health Hazard Assessment (cont'd)

- toxicity studies for a number of compositionally similar acrylic emulsions the typical oral LD50 (rats):
gt 5.0g/kg. This product is approved for incorporation into coatings in contact with potable water (U.S. EPA).
- Eye Contact:** Direct contact with emulsion may irritate human eyes. In studies of compositionally similar acrylic emulsions, rated as inconsequentially irritating to eyes (rabbit).
- Skin Contact:** Prolonged or repeated contact may irritate human skin. In skin studies (rabbit) of compositionally similar acrylic emulsions, rated as practically non-irritating.
- Skin Absorption:** No systemically toxic effects are known to occur in man via absorption of this material through skin. The LD50 dermal (rabbits) is gt 5.0g/kg for compositionally similar acrylic emulsions.
- Inhalation:** Inhalation of vapor or mist can cause headache, nausea and may irritate the nose, throat, or lungs. Monomer vapors may be generated if product is heated during processing operations. See Section 9.
- Other Effects of Overexposure:** No other adverse clinical effects are known to be associated with exposure to this mixture.
- First Aid Procedures:**
- Skin:** Remove contaminated clothing and footwear. Wash thoroughly with soap and water. If irritation persists or develops, contact a physician. Wash clothing and decontaminate footwear before reuse.
- Eyes:** Flood eyes with copious amounts of water. Contact physician if redness persists.
- Ingestion:** Give patient 1-2 glasses of water to drink and seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove patient to fresh air. If cough or respiratory symptoms develop or persist (irritation of nose, throat or lungs) consult a physician.

SECTION VII – Spill or Leak Procedures

- Steps to be taken in case material is spilled or released:
Keep unnecessary people away. Area may be slippery, use caution. Dike and contain spill with sand, absorbent, earth, etc. Transfer liquid to container for recovery or disposal. Transfer solid diking/absorbent material in separate containers for disposal. Keep spills and runoff out of bodies of water.
- Disposal Method:**
Discarded product is a non-hazardous waste under RCRA criteria (40CFR, Part 261). However, even small amounts of emulsion will discolor bodies of water. Re-use uncontaminated material when possible. Landfill or incinerate solids and contaminated diking material in accordance with local, state and federal regulations.
- Container Disposal:**
Drain containers completely. Empty containers may retain small amounts of residual product. Observe all hazard precautions when handling empty containers. Puncture or otherwise destroy container and dispose of as non-hazardous waste in accordance with local, state and federal regulations.

SECTION VIII – Special Protection Information

- TLV or Suggested Control Value:**
No TLV assigned to this mixture. Minimize exposure in accordance with good hygiene practice.
- Ventilation:**
Mechanical local ventilation to keep exposure below the OSHA PEL for nuisance dusts or for the appropriate PEL when incorporated into another product (e.g. for silica if used in a material containing silica. See the product's MSDS for information).
- Respiratory Protection (specify type):**
Not required if good ventilation is maintained. Use appropriate MSHA/NIOSH respirator when dusts or mists are generated for the types and concentrations of air contaminants encountered.
- Protective Clothing:**
Impervious gloves, long trousers, long-sleeved shirt, and appropriate footwear recommended to avoid skin contact.
- Eye Protection:**
Chemical splash goggles (ANSI Z-87.1 or approved equivalent).

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