

# AQUA PATCH

**Save money by eliminating repeat repairs!**

**Fast** - Hardens in 1 hour (traffic-ready)

**Easy** - Just add water

**Safe** - Environmentally friendly

**Permanent** - As hard as hot mix asphalt

**Convenient** - Use in Winter or  
Summer, rain or shine!

**Patent Pending**



**Organic  
Additives**

**Doing the job right - the first time,  
is now faster and easier than ever!**

AQUA Patch saves time and money while delivering a superior, permanent repair to asphalt and concrete surfaces. This cold-mix, water-activated product is environmentally friendly. It sets up quickly and is traffic-ready in just one hour.

Unlike other asphalt patching solutions, AQUA Patch provides a permanent solution, using revolutionary organic renewable additives, so you don't have to continually repair the same trouble spot, or replace a temporary fix with a permanent solution.

Don't let weather interfere with your production schedule. You can use AQUA Patch all year round, in all types of weather, hot or cold, wet or dry. Rain and moisture actually helps accelerate the process.

AQUA Patch is traffic-ready within just one hour after compaction, so road repairs don't tie up traffic as long.

AQUA Patch comes ready to use and application is quick and easy. Simply clear debris from the repair area, apply AQUA Patch, add water and tamp it down. Fast, easy and permanent!

## **Environmentally safe**

AQUA Patch is water activated, environmentally friendly, safe and non-toxic. No hydrocarbon leaching or evaporation.

### 1. Apply AQUA Patch



### 2. Add water



### 3. Tamp down



# AQUA PATCH

## Permanent Asphalt/Concrete Repair Solution

AQUA Patch is a cold-mix, permanent repair solution for asphalt and concrete applications that reacts with water to harden quickly, being traffic-ready within just one hour. The proprietary hardening agent is environmentally friendly and renewable.

## Instant Strength Development

### Applications:

- Asphalt road patching
- Concrete road repairs
- Pothole repairs
- Driveways, walkways and parking lots
- Utility cuts and manhole repairs
- Bridge joints

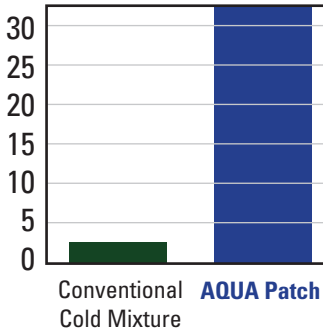
### Benefits:

- Easy - pour, add water and tamp
- Durable - as hard as hot mix asphalt
- Fast & hard - traffic-ready in just 1 hour
- Saves money - eliminates repeat repairs
- Environmentally friendly
- Can be sealed with a seal coat immediately after one hour cure.

## As hard as hot mix asphalt

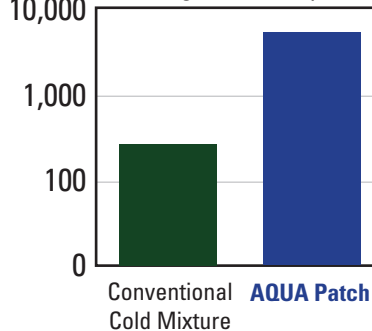
### Marshall Stability Test

(Curing: 20°C x 7 days)

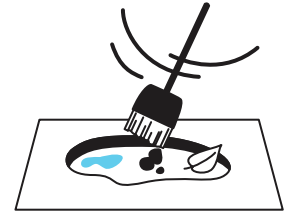


### Wheel Tracking Test

(Curing: 20°C x 7 days)



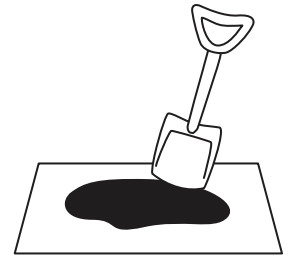
- 1 Remove loose debris and clean the area to be patched.



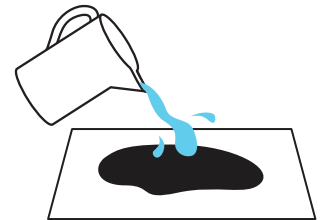
- 2 Pour AQUA Patch in the hole.



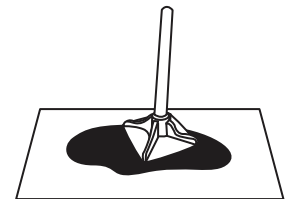
- 3 Spread and level. If deeper than 2 inches, apply in two layers.



- 4 Pour water over AQUA Patch evenly. 1 quart per bag. Excess water does not damage the material, or undermine the repair.



- 5 Compact and allow one hour to be traffic-ready.



# AQUA PATCH

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# Permanent Asphalt/Concrete Repair Solution

## MATERIAL SAFETY DATA SHEET

### Section I - Chemical Product and Company Identification

**Substance:** Permanent Asphalt/Concrete Repair Solutions  
**Trade Names:** AQUA Patch  
**Use of Substance:** Cold-Mix, permanent repair solution for asphalt and concrete applications  
**Chemical Family:** Aggregates, Asphalt  
  
**Revision Issue Date:** August 2014

### SECTION II - Hazards Identification

**Contents:** Small amount of flammable liquid  
**Appearance/odor:** Black, solid mineral binder mix with characteristic odor.  
**Potential Health Effects:**  
**Likely Routes of Exposure:** Eye contact, skin contact  
**Eye:** Mild/moderate irritation. Seek medical attention if continues.  
**Skin:** Prolonged exposure may cause moderate skin irritation. May cause drying/fatting of the skin.  
**Ingestion:** Not likely to be toxic, but may cause irritation of mouth, throat and stomach.  
**Inhalation:** Not relevant  
**Medical Conditions**  
**Aggravated By Exposure:** May cause more significant skin irritation in people with preexisting skin conditions.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. While this material is not considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Potential Environmental Effects:** AQUA Patch is water activated, environmentally friendly, safe and non-toxic. No hydrocarbon leaching or evaporation.

### SECTION III - Composition, Information on Ingredients

Component.	CAS #	% by Wt
Mineral aggregates	various	92 - 94
Binder	proprietary	8 - 6

**Hazards Disclosure:** This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

## SECTION IV - First Aid Measures

<b>Eye Contact:</b>	Rinse opened eye for several minutes under running water. If easy to do, remove contact lenses. Seek medical attention if irritation develops.
<b>Skin Contact:</b>	Remove contaminated clothing and wash before reuse. Wash skin with soap and water. Seek medical attention if irritation develops. If product is hot, may cause thermal burns.
<b>Inhalation:</b>	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
<b>Ingestion:</b>	Keep person warm and quiet and get medical attention. ONLY induce vomiting as directed by medical personnel. Do NOT administer anything by mouth to unconscious person.

## SECTION V - Fire Fighting Measures

<b>Suitable Extinguishing Media:</b>	Foam, powder, water spray
<b>Unsuitable Extinguishing Media:</b>	Water stream
<b>Products of Combustion:</b>	CO, CO <sub>2</sub> , H <sub>2</sub> S
<b>Specific fire fighting methods:</b>	No specific methods required
<b>Specific protective devices:</b>	Self-contained breathing apparatus
<b>Specific hazards:</b>	No specific hazards known.
<b>Specific hazards:</b>	Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

## SECTION VI - Accidental Release Measures

<b>Personal precautionary measures:</b>	No special measures required
<b>Environmental precautionary measures:</b>	Observe usual precautions
<b>Methods for cleaning up:</b>	Collect mechanically. Any rags, clothing, paper products or other porous material should be disposed of in fire proof containers.
<b>Other information:</b>	Spills of this material do not need to be reported to the National Response Center.

## SECTION VII - Handling and Storage

<b>Handling:</b>	Use rubber or cotton gloves. DO NOT handle material with bare hands. Keep away from heat, sparks and flame - do not smoke. Do not get in eyes. Do not breathe vapor. Avoid prolonged contact with skin.
<b>Storage:</b>	Use listed on the container. Immediate use is recommended after opening container or bag.
<b>Requirements on storage rooms and containers:</b>	Store in weather / sun protected area! Keep container well closed, material cures by exposure to air and/or water. Product residue may remain in empty containers. Observe all label precautions until container is cleaned, reconditioned or destroyed.
<b>Information about storage in common storage facility:</b>	Not relevant
<b>Further information about storage conditions:</b>	Store in weather / sun protected area
<b>Storage class according to VCI:</b>	Not relevant
<b>Appropriate application(s):</b>	For patching up asphalt and concrete

## SECTION VIII - Exposure Controls/Personal Protection

- Exposure guidelines:** Not established
- Engineering measures:** No special requirement.
- Components with critical values that require inspection at the place of work:** The product does not contain any relevant quantities of material with critical values, which have to be monitored at a work place.
- Eye/face protection:** Required as material contains loose debris.
- Skin protection:** Wear suitable work gloves, hard hat, and safety shoes.
- Respiratory protection:** Not required.
- General Hygiene Considerations:** Wash thoroughly after handling. Have eye-wash facilities immediately available. Do not eat, drink and smoke while working.

## SECTION IX - Physical and Chemical Properties

- Color:** Black
- Odor:** Little to none
- Physical state:** mineral - binder - mix
- pH - value:** not relevant
- Freezing point:** not relevant
- Boiling point:** not relevant
- Flash point:** 199°C
- Flammability:** not relevant
- Upper Flammability Limit:** not relevant
- Lower Flammability Limit:** not relevant
- Density at 20°C [g/ cm<sup>3</sup>]:** 0.905
- Solubility in water:** Insoluble in water.
- Auto-ignition Temperature:** Not available, but auto-ignition of the binder may occur if thin film is left on porous materials.
- Fire promoting properties [°C]:** product is not oxidizing
- Danger of explosive [°C]:** product is not explosive

## SECTION X - Stability and Reactivity

- Stability:** Stable
- Conditions to avoid:** Keep away from heat, sparks and flames
- Incompatible Materials:** not relevant
- Possibility of Hazardous Reaction:** Auto-Ignition of the binder residue left on porous materials such as rags, paper or clothing.
- Hazardous Decomposition Products:** not relevant

## SECTION XI - Toxicological Information

- Acute Effects:** The product is classified as not acute toxic.
- Chronic Effects:** The product is classified as not sub-acute respectively chronically toxic.
- Corrosive or irritant effect or sensitization:** The product is classified as not irritating or sensitizing.



## SECTION XII - Ecological Information

**Mobility in Environment:** Not relevant  
**Persistence/Degradability:** Not relevant  
**Bioaccumulation/Accumulation:** Not relevant  
**Further negative effects:** There are no negative effects known.

## SECTION XIII - Disposal Considerations

**Disposal:** Dispose of in accordance with federal, state and local regulations.  
**Packaging:** Packaging can be reused or recycled after cleaning. Note local restrictions.

## SECTION XIV - Transport Information

**US DOT (ground) Proper Shipping Description:** This product is not regulated for shipping by US DOT.  
**Canadian TDG (ground) Proper Shipping Description:** See US DOT.  
**ICAO (air) Proper Shipping Description:** See US DOT.  
**IMDG (water) Proper Shipping Description:** See US DOT.  
**ADR/RID Proper Shipping Description:** See US DOT.  
**ADN/ADNR Proper Shipping Description:** See US DOT.

## SECTION XV - Regulatory Information

**OSHA Process Safety (29CFR1910.119):** Not regulated.  
**Inventory Status United States (TSCA):** All ingredients are on the inventory or exempt from listing.

## SECTION XVI - Other Information

**NFPA 704:** National Fire Protection Association.  
 Health – 0      Fire – 0      Reactivity – 1  
 0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

The above MSDS complies with OSHA hazard communication standard 29 CFR 1910.1200.

To the best of our belief, information and knowledge, we believe the information contained in this MSDS to be accurate and reliable as of the date of this Material Safety Data Sheet. The above information is based on information received from raw material suppliers and other sources and references the product as currently formulated. We make no expressed or implied warranty regarding the accuracy or reliability of the data or results obtained from the use of the product and assume no responsibility or liability for personal injury or property damage incurred by the use of these materials due to the fact that the conditions of handling, use, and storage of these materials are beyond our control. Any and all materials should be used with caution and may present unknown hazards. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is each user's responsibility to determine if the information and data contained herein is suitable and to comply with all applicable international, federal, state and local laws and regulations.

**Date Prepared:** August 2014  
**Prepared By:** Aqua Patch Road Materials, LLC  
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