



Introduction to " **AQUAPATCH** "

01. "AQUAPATCH" Permanent Asphalt / Concrete Repair Solution



Earthquake restoration site (Miyagi Prefecture)

Large vehicle traffic volume:
over 3,000 vehicles/day



Distribution center entrance

Large vehicle traffic volume:
over 1,000 vehicles/day

AQUAPATCH is a cold-mix, permanent repair solution

02. HOW IT WORKS

使い方

How to use



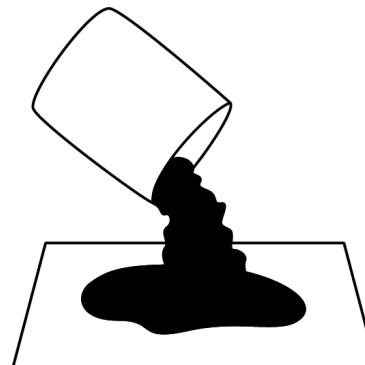
Aqua Patch Instruction
~water-activated cold mix asphalt~



01 Sweep

Sweep out loose debris, dust, rocks—if it's not fixed to the road, your patch won't be either. (Water can stay.)

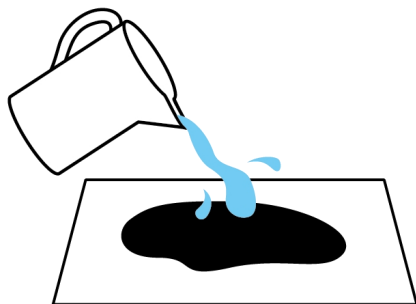
散らかったゴミ、埃、石を掃き出しましょう。道路に固定されていないと、パッチも固定されません。（水はそのまま残って構いません。）



02 Fill

Fill the pothole to 20 mm above the surrounding surface. For craters deeper than 70 mm, apply AQUAPATCH in a 50mm lift, compacting each layer before applying the next.

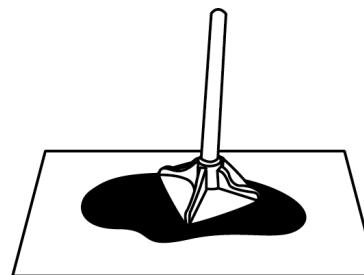
周囲の表面より20mm上まで穴を埋めます。
70mmより深い穴の場合は、アクアパッチを50mm厚で塗布し、各層をしっかりと締め固めてから次の層を塗布します。



03 Watering

Pour water over AQUAPATCH evenly. 1 quart per bag. Excess water does not damage the material, or undermine the repair.

アクアパッチに水を均等に注ぎます。1袋につき1クォート（約1.5リットル）です。水が多すぎても、素材が傷んだり、補修効果が損なわれることはありません。



04 Compact

Feet Compacting work. Tamps are good too.

Surface can be used immediately after placement

足で踏み固めることは有効です。タンピングも有効です。
施工後は即時に通行することができます。

AQUAPATCH is easy to use for everyone

02. HOW IT WORKS

使い方

How to use



Aqua Patch Instruction
~water-activated cold mix asphalt~



All-weather product

Can be used on rainy days and in puddles. Please pour water over AQUAPATCH even when applying on a rainy day and in puddles.



Workable in Winter FREEZE

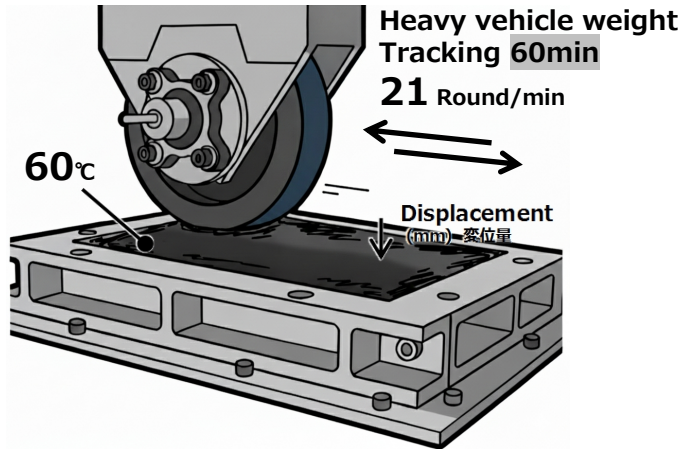
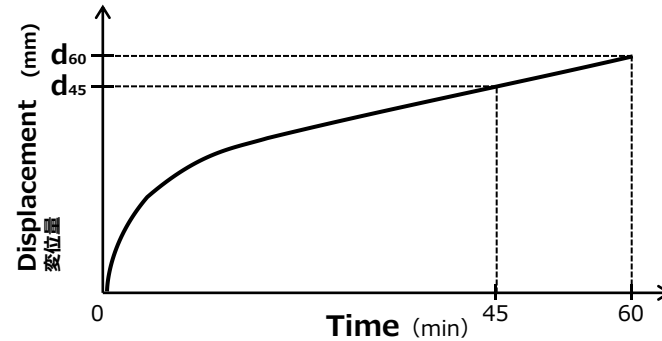
AQUAPATCH can be used even in winter.
Can be used down to -15°

Guaranteed to work in Wet weather ,even on cold days

03. Durability of each cold mix classification

WT test : Wheel Tracking test

Tests to evaluate the flow resistance of asphalt mixtures at high temperatures



$$\text{DS: Dynamic stability} = \frac{15}{d_{60} - d_{45}} \times 42 \text{ (pass/min)}$$

Wheel Tracking test (pass/min)	Time passed after paving		
	5h	24h	7days
AQUAPATCH Water-curing Type	155	375	5,730
Volatile-harden Type	- Collapsed	- Collapsed	5 _(Estimated value) Collapsed
Terms	60°C 5h⇒test	20°C 19h + 60°C 5h⇒test	20°C 163h + 60°C 5h⇒test

※ reference

Hotmix (Straight As) = 800~1,500

Hotmix (Modified As) = 5,000~9,000 [standard: over 3,000]

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WT test : Wheel Tracking test

Tests to evaluate the flow resistance of asphalt mixtures at high temperatures



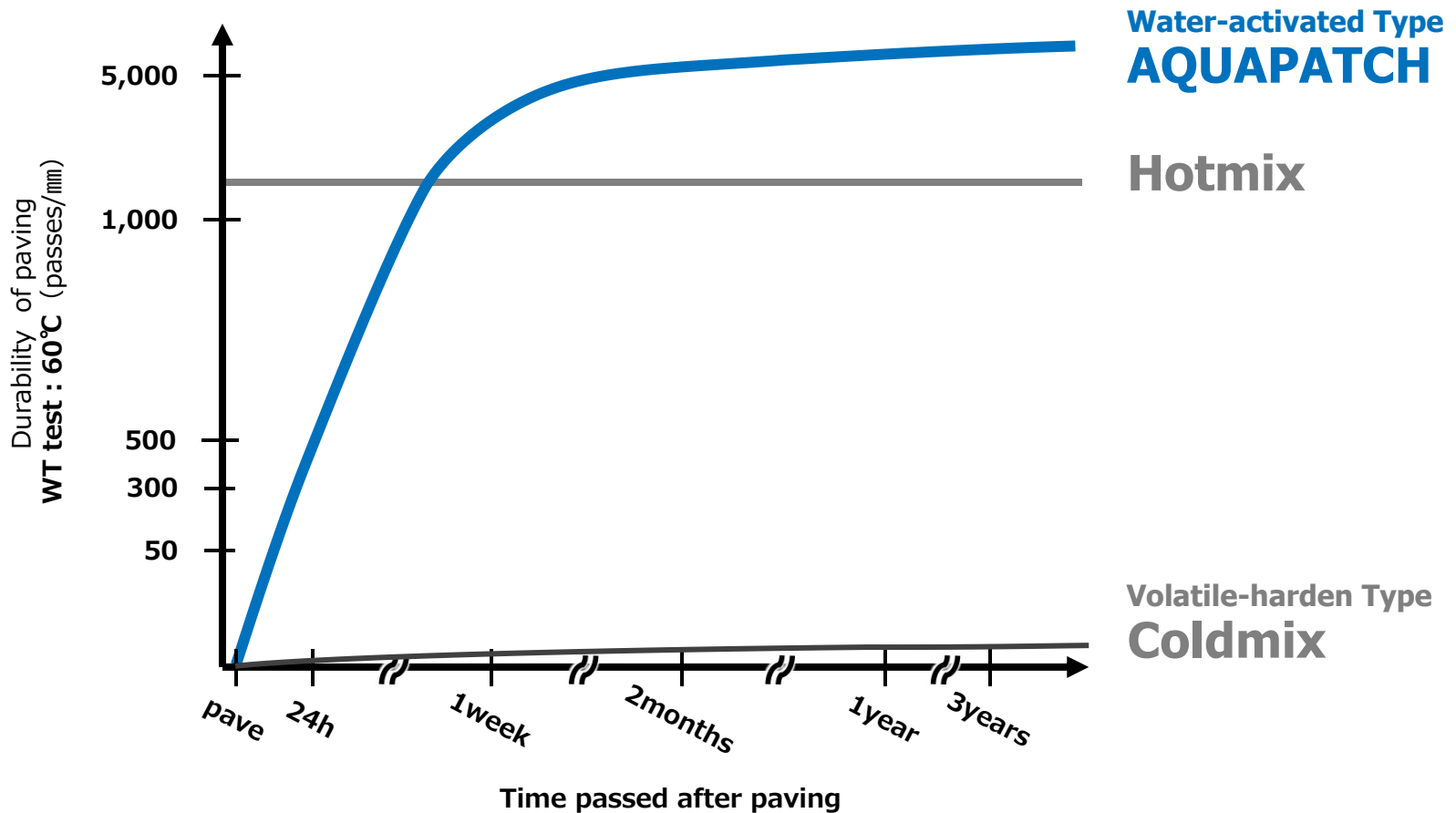
Water-activated Type
AQUAPATCH



Volatile-harden Type
Coldmix

Wheel Tracking test (pass/min)	Time passed after paving		
	5h	24h	7days
AQUAPATCH Water-activated Type	155	375	5,730
Volatile-harden Type	0 Collapsed	0 Collapsed	5 Collapsed
Terms	60°C 5h⇒test	20°C 19h + 60°C 5h⇒test	20°C 163h + 60°C 5h⇒test

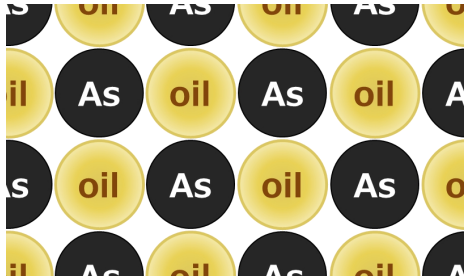
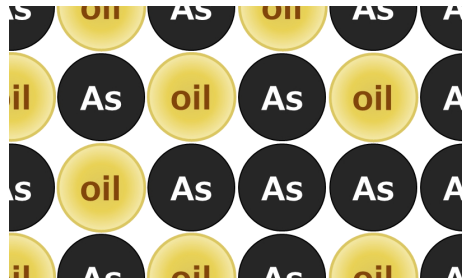
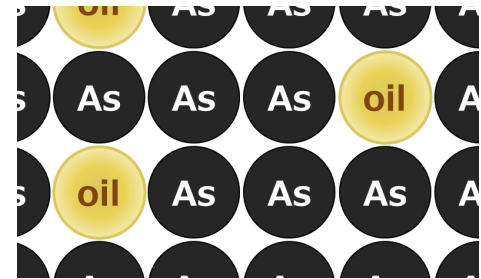
03. Durability of each cold mix classification



AQUAPATCH is the only Coldmix that is as strong as Hotmix

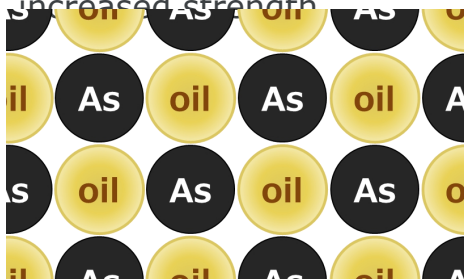
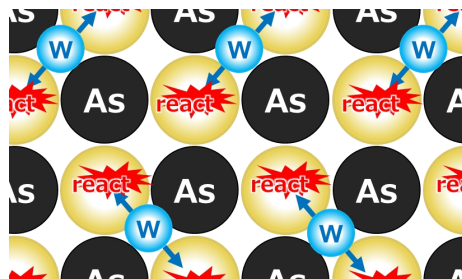
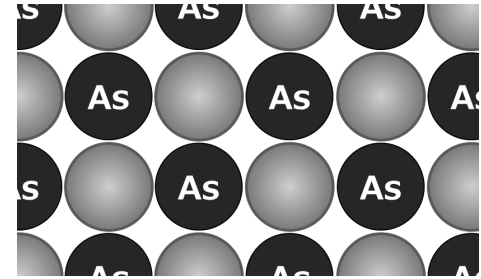
04. Why is AQUAPATCH so durable?

1. Volatile-harden Type This type is produced by adding soft, easily volatile oil to asphalt. The inclusion of soft oil in the asphalt allows it to be applied at room temperature. As the oil gradually evaporates after use, the strength is developed.



Doesn't harden

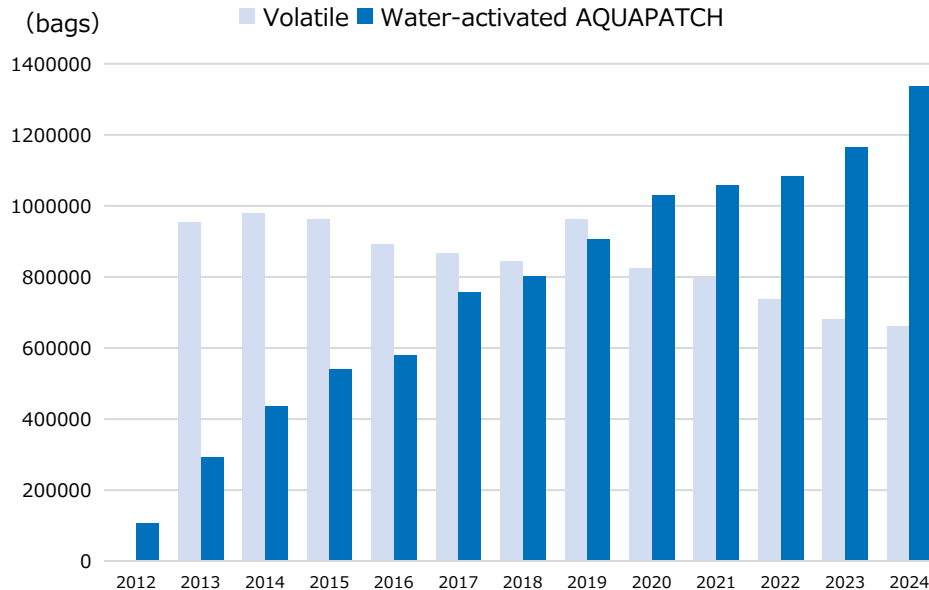
2. Water-activated Type This type is produced by adding soft, environmentally friendly oil to asphalt. The inclusion of soft oil in the asphalt allows it to be applied at room temperature. Adding water during application causes the oil to harden through a chemical reaction, resulting in increased strength.



Curing

AQUAPATCH is the only Coldmix that is curing by chemical reaction

10. Sales in JAPAN -販売-



Maeda Road Co., Ltd.'s cold mix sales trends

Sales of AQUAPATCH have grown rapidly, but the volatile type has not declined accordingly.

This means that AQUAPATCH is not necessarily being installed in volatile markets or application locations.

AQUAPATCH has succeeded in creating new needs.