

HOT POUR MASTICS



What are they?

Why should I use them?

Where can I use them?



Rick Stone, Business Development



Asphalt



Concrete

What is GAP Mastic?

GAP brand mastics combine the flexibility and adhesion of rubberized asphalt sealants with the strength and load bearing of engineered aggregates that completely fills the repair void.

The result provides a stable, flexible repair that bonds firmly with existing pavements to seal out water, return structural strength, improve ride quality and prevent further damage for years to come.

Current Materials and Methods of Pavement Preservation



Hot Mix

Cold Patch



Spray Injection

Infrared



These workers are using the spray-injection technique for pothole repair.

Who currently uses Mastics?

- State DOTs, County Highway Depts., Local town DPWs, Pavement contractors
- Began over 20 years ago out west, last 10-12 years has become a year round pavement operation.
- Common pavement preservation process and tool west of the Mississippi. Coming East fast!

A “one time” application of hot pour mastics permanently restores performance to pavements with defects while also waterproofing the repair.

No other current material or pavement preservation method combines the following;

Cost Effective

Fast

Permanent

Versatile





















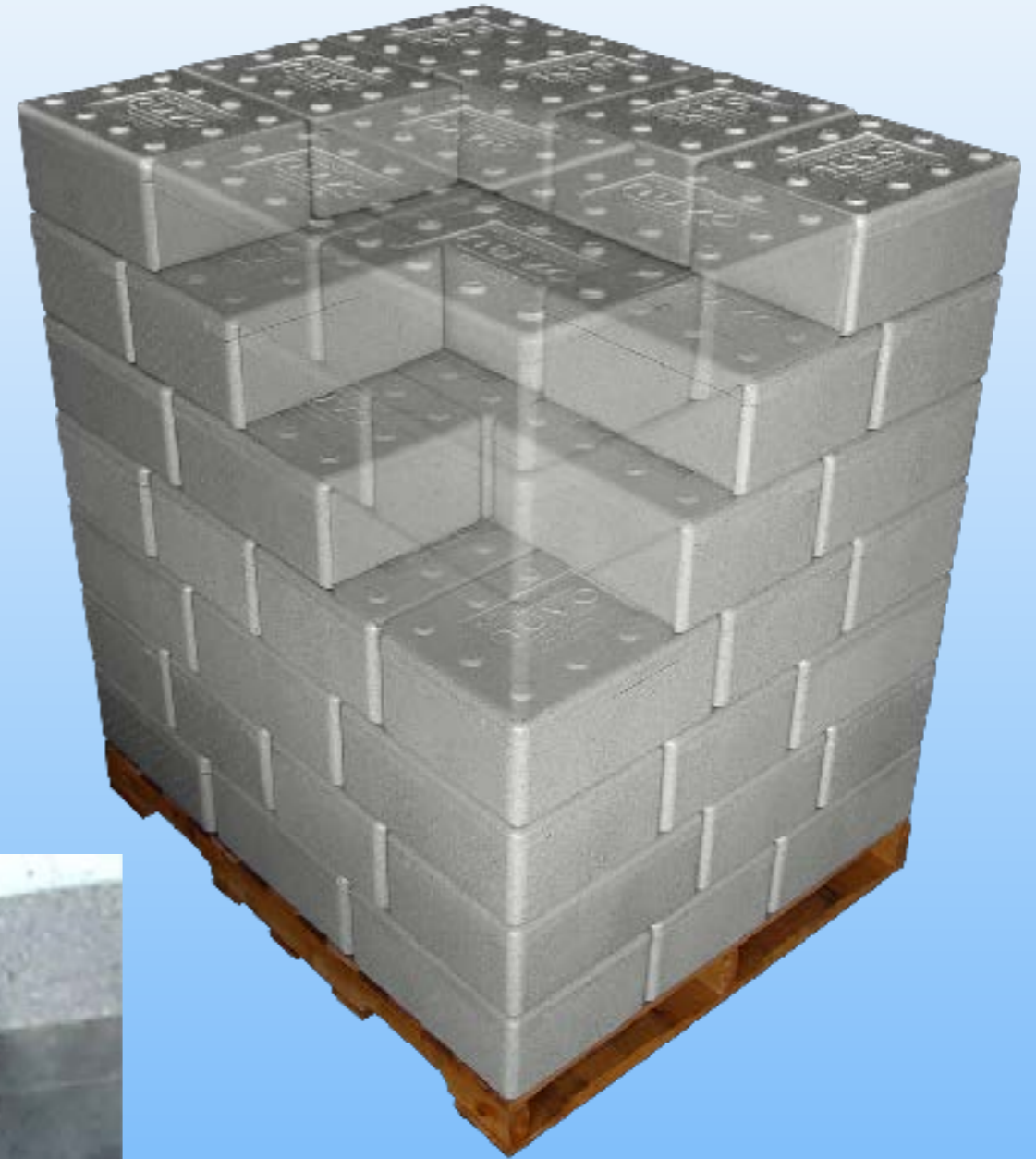
Cost Effective

- Reduced manpower, equipment and mobilization required.
- Affordable material costs, with no waste.
- Longevity of the repair.



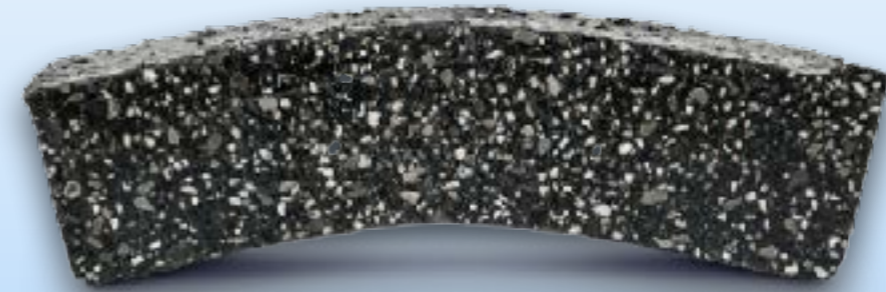
Fast

- Available *year round*, complete mastic materials in meltable boxes.
- Minimal pavement prep; clean and dry
- Shorter traffic closures due to quick application and material set times. Safer for crews and motorists.
- Easy to finish, no compaction needed. Let cool, open to traffic.

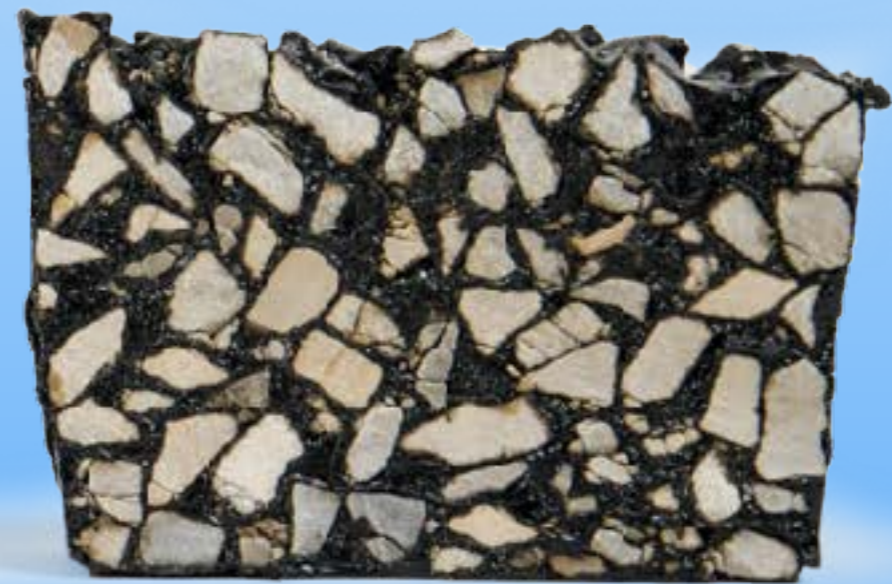


Permanent

- Flexes with the pavement, returns structural strength, waterseals and protects the road base.
- Stays in the hole. Compatible with other surface treatments.
- Returns smooth ride quality for years to come.



Like joint sealants, mastics can be engineered for maximum performance in different regional climates and patching conditions.





VERY COLD



COLD



MODERATE



HOT



VERY HOT

GAP MASTIC B

GAP MASTIC C

GAP MASTIC D

GAP MASTIC MOD 201

GAP MASTIC MOD 202

GAP MASTIC B



BINDER

f CONE PENETRATION : 77°F (25°C), 150G, 5S : ASTM D5329	70 DMM MAX
f SOFTENING POINT : ASTM D36	200°F (93°C) MIN
f FLEXIBILITY : 1 IN (25MM) MANDREL, 90 DEG BEND, 2S : ASTM D3111	PASS -15°F (-26°C)
f ASPHALT COMPATIBILITY : 140°F (60°C), 72 HR : ASTM D5329	PASS

AGGREGATE

f AGGREGATE PREPARATION	WASHED, CLEAN & DRIED
f SIEVE ANALYSIS : 3/4" SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	95% MIN
f SIEVE ANALYSIS : NO. 4 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	15% MAX
f SIEVE ANALYSIS : NO. 16 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	3% MAX
f FRACTURED FACE : 2 OR MORE FACES : MANUFACTURER'S CERTIFICATION	85% MIN



GAP MASTIC MOD 201

BINDER

❶ CONE PENETRATION : 77°F (25°C), 150G, 5S : ASTM D5329	70 DMM MAX
❷ SOFTENING POINT : ASTM D36	200°F (93°C) MIN
❸ FLEXIBILITY : 1 IN (25MM) MANDREL, 90 DEG BEND, 2S : ASTM D3111	PASS -10°F (-23°C)
❹ TENSILE ADHESION : 77°F (25°C) : ASTM D5329	600% MIN
❺ RESILIENCE : 77°F (25°C) : ASTM D5329	35% MIN

AGGREGATE

❶ SIEVE ANALYSIS : NO. 4 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	90% MIN
❷ SIEVE ANALYSIS : NO. 16 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	10% MAX



GAP PATCH 330

BINDER

f CONE PENETRATION : 77°F (25°C), 150G, 5S : ASTM D5329	70 DMM MAX
f SOFTENING POINT : ASTM D36	200°F (93°C) MIN
f FLEXIBILITY : 1 IN (25MM) MANDREL, 90 DEG BEND, 2S : ASTM D3111	PASS -15°F (-26°C)
f ASPHALT COMPATIBILITY : 140°F (60°C), 72 HR : ASTM D5329	PASS

AGGREGATE

f AGGREGATE PREPARATION	WASHED, CLEAN & DRIED
f SIEVE ANALYSIS : 3/4" SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	95% MIN
f SIEVE ANALYSIS : NO. 4 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	15% MAX
f SIEVE ANALYSIS : NO. 16 SIEVE, PASSING : MANUFACTURER'S CERTIFICATION	3% MAX
f FRACTURED FACE : 2 OR MORE FACES : MANUFACTURER'S CERTIFICATION	85% MIN

Common mastic uses

- Wide cracks
- Filling, sealing and repairing pavement distresses
- Filling potholes and utility cuts
- Pavement seams and shoulder joint failures
- Skin patches, alligator/spider web cracking
- Raveled pavements
- Around raised manholes, drain and culvert repairs
- Rough driving surfaces
- Depressions, ruts and cupped pavements
- Leveling bridge approaches
- Bridge deck repairs























IN CONCLUSION.....

GAP Hot Pour Mastics provide a cost effective permanent repair to all pavements, often where traditional repair materials and methods are out of season, too slow, don't last or are too costly.

GAP Hot Pour Mastics are;

Cost Effective

Fast

Permanent

Many more applications

Reduce material waste



Questions?

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