



Rokiln Systems FloMix Asphalt Rapid Repair

FloMix combines polymers with a specially treated aggregate to create a rapid setting, easy to apply, long lasting and durable asphalt repair. Repairs can be done in minutes, using 4 simple steps. Originally developed for the military as a rapid runway repair material, FloMix is an inexpensive alternative to traditional asphalt restoration procedures. FloMix rupture strength is 3 times stronger than concrete. This innovative, patented process provides a modern solution for an age old problem. FloMix repairs are sure to perform.

FloMix asphalt repair kit includes coated sand, bottles of “A” & “B” liquids, and a high traction topping. FloMix is mixed in its own bucket using an electric hand drill and/or a mixer. It reacts quickly after mixing, yet remains workable with a lute, squeegee or trowel for several minutes prior to thickening and setting. Repairs are completed in minutes and cure quickly with no shrinkage.

FloMix is virtually unaffected by the environment, with durability surpassing other repairs. It is Waterproof, Non-Flammable, and Unaffected by Gasoline, Diesel, Motor Oils, Jet Fuel, Anti-Freeze or De-Icing Fluids.

FloMix is also safe. The liquid polymers are odorless and non-flammable, with no fumes, caustics, acids, solvents, oxidizers, flammables, dust or heating. However, protective eye wear and gloves are required to prevent skin contact and to avoid sensitization to the liquid polymer.

Distributor

BREWER COTE OF ARIZONA INC ® ‘THE PAVEMENT MAINTENANCE SPECIALISTS’
5226 W. MISSOURI AVENUE, GLENDALE, ARIZONA 85301



Roklin Systems

FloMix can be applied in 4 simple steps

- Clean Surface** - apply to stable, clean, uncoated, dry surface
- Prepare FloMix** – Mix polymers and sand using pail mixer and/or heavy Drill
- Apply FloMix** – Pour or Trowel FloMix over deteriorated area
- Add Topping Sand** – and after FloMix sets up, open to traffic

Packaging – FloMix is available in a 5 gal Kit which is made up of equal volume of “A” & “B” Polymer, 30 lbs. of a 2-12 and 60 mesh blend of treated aggregate and a 12 lb. bag of treated Topping sand. The entire contents come in the 5 gal pail and the material is mixed with a ½ Hp drill. Shelf life is 12 mo. In unopened container stored indoors. Bulk distribution is also Available with the Roklin strong Arm polymer and aggregate dispensing system.

Additional Aggregate – Up to 25 lbs. of additional 3/8” aggregate may be added to enhance The mechanical properties of the finished product, increase the load bearing ability and Deliver more product per kit. Roklin supplies the 25 lb. bag 3/8” polymer coated basalt that Will increase output from .4 of a cubic foot to over .6 of a cubic foot per 5 gal kit. The Aggregate can be added directly into pail, once FloMix is fully mixed. Minimum spall depth of ½” is required to utilize additional aggregate. Roklin recommends a motorized pail mixer to Ensure a good dispersion of polymers and aggregates.

Physical / Chemical Characteristics

Boiling Point	428° F, 536° F
Vapor Pressure (mm Hg)	NE
Vapor Density (AIR=1)	9.9
Specific Gravity (H2O=1)	1.084, 0.942 - .0948
Melting Point	N/A
Evaporation Rate (Butyl Acetate = 1)	NE
Solubility in Water	Insoluble, reacts with water to form carbon dioxide gas
Appearance / Odor	Pale Amber Color / Odorless Liquid
Reactivity	Stable, under normal, recommended conditions
Conditions to Avoid	Open Flame and Storage Temperatures above 120° F

Table 1 TX DMS – 6170 Type I Physical Requirements

Test	Age at Test	Method	Requirement	Result
Gel time Min.		Tex-614-J	5 to 60 min	9 min
Wet Bond Strength psi	7 days	Tex-618-J	≥ 100 psi	176 psi
Compressive Strength psi	24 hrs.	ASTM C579 B	≥ 200 psi	1710 psi
Compressive Strength psi	7 days	ASTM C579 B	≥ 200 psi	1820 psi
Compressive Strength psi	28 days	ASTM C579 B	≥ 200 psi	2140 psi
Compressive Stress at .1 in	7 days	Tex-618-J	≥ 200 psi	733 psi
Resilience, %	7 days	Tex-618-J	≥ 90%	97.2% *
Resilience, %	7 days	Tex-618-J	≥ 90%	82.0%
Thermal compatibility	7 days	ASTM C884	no delamination or cracking after 9 cycles	Pass

*Test from earlier batch of Material

Table 1 CT 551 Results

Material Property Test	Age at Test	Results
Compressive Strength (MPa)	1 hr*	4.25
Compressive Strength (MPa)	3 hr.*	7.00
Compressive Strength (MPa)	6 hr.*	7.45
Compressive Strength (MPa)	24 hr.	11.80
Compressive Strength (MPa)	7 days	12.55
Compressive Strength (MPa)	28 days	14.75
Flexural Strength (MPa)	24 hr.	5.10
Flexural Strength (MPa)	28 days	6.95
Bond Strength (MPa)	24 hr.	1.40
Bond Strength (MPa)	28 days	2.45
Modulus (MPa)	28 days	163.0
Specific Gravity		1.84
Absorption %		.33%

*Stress at 10 mm Displacement



Some Important Facts about FloMix Asphalt Repair

- FloMix is a cold-applied, liquid and aggregate slurry that hardens in minutes to provide a long-lasting repair, without the need for removal of damaged asphalt or dig-outs of any kind.
- FloMix utilizes our patented, coated aggregate, which contributes to flowability and ease of installation.
- FloMix can be finished precisely to grade, resulting in a smoother ride over the repaired areas.
- FloMix is easily feathered into the surrounding asphalt to form a repair that blends in visually with the existing pavement.
- FloMix restores aggregate interlock and pavement strength by promoting adhesion between the repaired area and the existing asphalt.
- FloMix can be used anytime the need arises. No need to wait for hot asphalt or heavy equipment.

Listed below are some of the advantages that FloMix offers vs. conventional materials

Simple-to-apply
Unaffected by extreme hot or cold
Fast set-up, less than 10 minutes
Supports heavy roadway traffic

Seals & Waterproofs
Shortens road closure time; saves labor costs
Self-compacting
High-traction surface

Asphalt Repair Applications

Asphalt Pavement Repair
Asphalt Highway Shoulder Repair
Broken Asphalt Repair
Asphalt Crack Repair
Asphalt Ramp Repair
Asphalt Parking Lot Repair
Asphalt Manhole Repair

Level Uneven Asphalt Repair
Asphalt Pothole Repair
Asphalt Walkway Repair
Asphalt Playground Repair
Asphalt Highway Repair
Asphalt Loading Dock Repair

Asphalt Patch Repair
Alligator Repair in Asphalt
Asphalt Sidewalk Repair
Asphalt Parking Deck Repair
Asphalt Equipment Bases Foundation
Asphalt Driveway Repair

Distributor

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ROKLIN'S ASPHALT REPAIR SYSTEM

	Hot Mix	Cold Mix	FloMix
Before Repairs	Obtain Hot mix	Potholes only	Minimal surface preparation
Surface	Smooth ride requires skilled crew	Poor ride	Excellent match to grade sample
Main Use	New construction, overlays, not designed for repairs	Hot mix alternative skin patching, winter repairs	Rapid permanent repairs
Equipment	Asphalt truck plus specialized equipment and crew for application and compacting	Shovel/compactor	Simple mixing equipment and hand tools
Application Temperature	Ideal - 70° F to 95° F	60° F minimum	Any temperature 30° F and up
Repair Depth	1" to full depth	Potholes and skin patches	Feathered to full depth
Compaction	Must be compacted to attain strength	Compacted by traffic	Self-compacting non-shrinking, flowable
Availability	Must be purchased just prior to use and maintained hot, subject to schedules of hot mix plant, not available nights or weekends	Can be inventoried but dries out and has limited shelf life	Can be inventoried with shelf life of 1 plus year
Potholes	Requires removal, squaring off, base repair prior to repair	Temporary repair, poor match to grade	Minor preparation; No removal; Excellent match to grade
Cracks & Cold Joints	No	No	Yes
Mismatched Grades	No	No	Yes
Rutting Raveling	No	No	Yes
Base Damaged Asphalt	Removal of asphalt and base repair prior to repair	No	Skin patch on asphalt over damage
Alligatoring, Block Cracking	No	No	Yes
Water Proofing, Fuel Proofing	No	No	Yes
Traffic Loops	No	No	Yes
Utility Cuts	First repair with cold mix and then replaced with hot mix later	Temporary repair	Any width 1/2" and up One step repair
Manholes	Must be removed prior to repair	Temporary repairs only	No removal required
Mechanical Strength	Excellent compressive strength with proper compaction	Low strength, works in potholes only	High tensile, compressive and rupture strength
Edge Strength	Very low	Very low	Excellent
Flexibility	Yes	Yes	Yes
Adhesion	Must be tack coated and compacted	Mainly mechanical interlock	Excellent
Fuel/Chemical/Water Resistance	No	No	Yes
Memory	No	No	Yes, recovers to original shape after loading
Manpower Requirements	Skilled crew familiar with special equipment	No special skill set required	No special skill set required



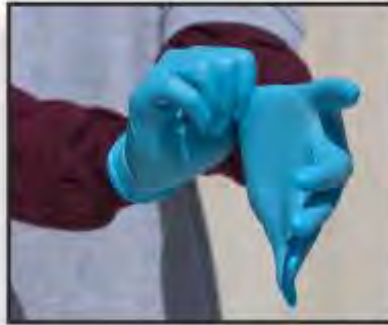
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ROKLIN STEP-BY-STEP ASPHALT REPAIR

Roklin Systems Inc. introduces FloMix, the rapid asphalt repair. With no saw-cut or demolition required, prep is quick and easy, usually just blown air. Damaged areas can be returned to traffic in a fraction of the time required for traditional repair methods. The polymer-based repair works in areas where there is a lot of movement, damaged base, where heavy rolling equipment is not available or where other asphalt repair materials have failed.



To begin, use a wire brush and compressor to sweep and blow the dirt out of the hole.



Put on Nitrile gloves and safety goggles. Also, make sure you have on long sleeves and pants to protect from any possible splatter.



Pour the bottle marked "A" into the bucket. Pour slowly so as not to splash.



Mix the FloMix in bucket with egg-beater style mixer or pail mixer.



Shake "B" bottle for 30 seconds. Pour into bucket. Mix for 2 minutes.



Flow material into damaged area to just-blow grade.



Use a screed to spread the material evenly.



Broadcast topping sand over entire surface until you cannot see liquid.



When set, sweep or blow away excess sand and your repair is ready for traffic.

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SYSTEMS INCORPORATED

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These pictures are of Projects that were done on I-17, Loop 202 and Loop 101 and now the Broadway Curve up-grades. Brewer Cote is Pleased to be involved with these ADOT Projects

- Two-Component Urethane Rapid Setting Patch Material
- Hand Mix or Bulk Applicator supplied by Brewer Cote at “No additional charge”
- Available in Black / Gray
- Open to Traffic in 20 Minutes



Samples and Demonstrations Gladly Provided

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POLYFLEX

City of Phoenix' Sky Harbor Airport ...

Williams Gateway, Deer Valley and Goodyear Airports Have been using **FlexSet** and **PolyFlex** for more than 10 Years! Pima County, Oro Valley and various others use **PolyFlex** Black for their Asphalt repairs.

PolyFlex re-bonds cracked Concrete, it is used to strengthen Roads, Bridges, Slabs and Parking Structures. It seals Concrete to stop freeze, thaw, spawling and chemical attack



Packaging - **PolyFlex** equal volume 'A' & 'B' components are packaged in 5 gal pail kits or bulk 30 gal or 100 gal kits. Shelf life is 12 mo. in unopened containers stored indoors. Brewer Cote keeps both the 5 gal and the bulk kits in stock.
(Including the application equipment)

Instructions - **PolyFlex** performs well in extreme temperatures. In excessive heat (100° F or higher). Do not leave product outside overnight. Do not apply during rain or on wet surfaces. Co-reactive A & B components are transferred from 5 to 50 gal containers, through proportioning pumps (1:1 ratio) to dispensing gun. Mixed material is dispensed into repairs. Read safety data sheet & installation instructions before using product.

Typical Properties

Component	'A'	'B'
Ratio A : B	1	1
Viscosity 73° F cps	24	57.5
Appearance	Amber	Black/Gray
Flash Point in F	245	360
Specific Gravity @ 73° F	1.09	1.01

Application Tests

Resilience
5 hr. Compressive Strength
24 hr. Compressive Strength
7 Day Tensile
7 Day Tear
Pot Life

Procedure

ASTM C579-01
ASTM C579-01 Mod
ASTM C579-01 Mod
ASTM D638
ASTM D624
Gardeo GT-S Gel polymers

Results

Pass
2100 psi
3800 psi
500+ psi
200 lb f/n
5 min

Temperature

80° - 100°
60°- 80°

Set Time

5-6 min.
10 min.

Return to Service

20 min.
30 min.



PolyFlex DS – Black

PolyFlex DS – Black Re-Bonds Cracked and Rutted Asphalt. This thin Penetrating Polymer is applied with the Roklin Vari-Flo Polymer Dispensing System. PolyFlex DS restores Asphalt Strength by penetrating and re-bonding cracks. Large cracks are sand filled then saturated with PolyFlex DS to form High Strength Polymer Concrete.

PolyFlex DS – Black restores Asphalt strength for Roads, Bridges, Parking Structures and Pot Holes. It Seals Asphalt to prevent further breakdown and repairs are fast. Traffic can resume within 20 minutes.

Penetrates / Re-Bonds

Penetrates and Re-Bonds thin, wide or deep cracks to restore Asphalt Strength

Seals / Protects

Waterproofs, protects from freeze, thaw or spalling.

Smooths rough surfaces. Restores traction surfaces

Fast Repairs / Cures

Solidifies in less than 5 minutes. Ready for traffic in 20 minutes

Repairs Year Round

Successful Repairs in Cold or Hot Weather

Safe to Use / Low Odor

Non-Flammable, there are no peroxides or heavy metals.

There is little odor on application and is safe to use.

(See product safety data for more information)

Chemically Resistant

Resists dilute acids and alkalis. Unaffected by salt, gasoline, diesel fuel, lubricating oils, or anti-freeze.

Fuel and Oil drips from vehicles will not penetrate treated areas.

INSTRUCTIONS

Roklin PolyFlex DS Black performs well in Temperature Extremes. For best performance, Install at 10°F to 100° F ambient temperature and 50°F to 75° F material temperature. Do Not apply during rain or on wet surfaces. Read Material Safety Data and Installation Instructions before using product.

BULK APPLICATION EQUIPMENT

Roklin Vari-Flo Polymer dispensing equipment transfers, meters, mixes and applies Roklin PolyFlex DS. Co-reactive "A" and "B" components are transferred from 5 to 50 gal containers, Through proportioning pumps (1:1 ratio), to the dispensing gun. Mixed material is dispensed Into repairs.

SMALL JOBS

Apply from 21 oz cartridge kits with hand operated air powered dispensing guns.

PACKAGING

Roklin PolyFlex DS equal volumes of "A" and "B" components are packaged in kits of 5 gal, 30 gal and 100 gal. Shelf Life is 12 mo. In unopened containers stored indoors.



Large Crack repair

Remove loose and unsound material
 Blow crack clean with dry compressed air
 Fill crack with 30 mesh or larger sand
 Flood crack with Roklin PolyFlex DS

Hairline Crack Repair

Blow out cracks with dry compressed air
 Flood with Roklin PolyFlex DS. Broadcast
 clean, dry uniform graded sand on cured
 liquid for high traction surface

Spider Cracks

Shot blast or sand blast deck surface
 Flood deck with PolyFlex DS at the rate
 of 1 gal per 100 sq./ ft. Immediately
 broadcast sand to refusal into the cured
 liquid. When cured sweep off excess sand.

Restoring Traffic

With Roklin PolyFlex DS, traffic can resume
 within 20 minutes of completion of work
 reducing the time of crews' exposure to on
 coming traffic

Typical Properties: Application

Component	"A"	"B"
Ratio A:B Volume	1	1
Viscosity @ 73°F cps	24	57.5
Appearance	Amber	Black
Specific gravity @ 73°F	1.09	1.01
Flash Point °F	245	360

Mixed

Pot Life, Minutes @ 73°F	3
Cure Time Minutes @ 73°F	10
Cured Color	Black

Typical Cured Properties

Specific Gravity	ASTM D792	1.07
Hardness, Durometer D	ASTM D2240	70
Tensile Strength, psi	ASTM D412	4300
Elongation at Break %	ASTM D412	≤10
Tear Strength	ASTM D624	275
Compression Strength psi	ASTM C39	4250
Bond Strength psi		500

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PolyFlex DS – Gray

PolyFlex DS – Gray Re-Bonds cracked concrete. This thin, penetrating polymer is applied With Roklin Concrete Welder Polymer Low Pressure Dispensing System. PolyFlex DS restores Concrete strength by penetrating and re-bonding cracks. Large cracks are sand filled then Saturated with PolyFlex DS to form a High Strength Polymer Concrete.

PolyFlex DS Gray restores concrete strength for Roads, Bridges, Slabs, Parking Structures, Roofs and floors. It seals concrete to stop freeze, thaw, spalling and chemical attack. PolyFlex DS repairs fast. Traffic can resume within 20 min.

Penetrates / Re-Bonds

Penetrates and Re-Bonds thin, wide or deep cracks to restore Asphalt Strength

Seals / Protects

Waterproofs, protects from freeze, thaw or spalling.

Smooths rough surfaces. Restores traction surfaces

Fast Repairs / Cures

Solidifies in less than 5 minutes. Ready for traffic in 20 minutes

Repairs Year Round

Successful Repairs in Cold or Hot Weather

Safe to Use / Low Odor

Non-Flammable, there are no peroxides or heavy metals.

There is little odor on application and is safe to use.

(See product safety data for more information)

Chemically Resistant

Resists dilute acids and alkalis. Unaffected by salt, gasoline, diesel fuel, lubricating oils, or anti-freeze.

Fuel and Oil drips from vehicles will not penetrate treated areas.

INSTRUCTIONS

Roklin PolyFlex DS Gray performs well in Temperature Extremes. For best performance, Install at 10°F to 100° F ambient temperature and 50°F to 75° F material temperature. Do Not apply during rain or on wet surfaces. Read Material Safety Data and Installation Instructions before using product.

BULK APPLICATION EQUIPMENT

Roklin Vari-Flo Polymer dispensing equipment transfers, meters, mixes and applies Roklin PolyFlex DS. Co-reactive “A” and “B” components are transferred from 5 to 50 gal containers Through proportioning pumps (1:1 ratio), to the dispensing gun. Mixed material is dispensed Into repairs.

SMALL JOBS

Apply from 21 oz or 53 oz cartridge kits with hand operated air powered dispensing guns.

PACKAGING

Roklin PolyFlex DS equal volumes of “A” and “B” components are packaged in kits of 5 gal, 30 gal and 100 gal. Shelf Life is 12 mo. In unopened containers stored indoors.



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Blow out cracks with dry compressed air
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Shot blast or sand blast deck surface
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