

# Comparison of Hot Mix, Cold Mix, and FloMix in Asphalt Repair with no removal or grinding.

	Hot Mix	Cold Mix	FloMix
<b>Before Repairs</b>	Obtain Hotmix	Pot holes only	Minimal surface preparation
<b>Surface</b>	Smooth ride requires skilled crew	Poor ride	Excellent match to grade simple
<b>Main Use</b>	New construction, overlays; Not designed for repairs	Hot mix alternative skin patching, winter repairs	Rapid permanent repairs
<b>Equipment</b>	Asphalt truck plus specialized equipment and crew for application and compacting	Shovel/compactor	Simple mixing equipment and hand tools
<b>Application Temperature</b>	Ideal - 70 F to 95 F	60 F minimum	Any temperature 30 F and up
<b>Repair Depth</b>	1" to full depth	Potholes and skin patches	Feathered to full depth
<b>Compaction</b>	Must be compacted to attain strength	Compacted by traffic	Self-compacting Non - Shrinking , Flowable.
<b>Availability</b>	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.
<b>Potholes</b>	Requires removal, squaring off, base repair prior to repair	Temporary repair; Poor match to grade	Minor preparation; No removal; Excellent match to grade
<b>Cracks &amp; Cold Joints</b>	No	No	Yes
<b>Mismatched Grades</b>	No	No	Yes
<b>Rutting Raveling</b>	No	No	Yes
<b>Base Damaged Asphalt</b>	Removal of asphalt and base repair prior to repair	No	Skin patch on asphalt over damage
<b>Alligating, Block Cracking</b>	No	No	Yes
<b>Water Proofing, Fuel Proofing</b>	No	No	Yes
<b>Traffic Loops</b>	No	No	Yes
<b>Utility Cuts</b>	First repair with cold mix and then replaced with hot mix later.	Temporary Repair	Any width 1/2" and up One step repair.
<b>Manholes</b>	Must be removed prior to repair	Temporary repairs only	No removal required
<b>Mechanical Strength</b>	Excellent compressive strength with proper compaction	Low strength; Works in potholes only	High tensile, compressive and rupture strength
<b>Edge Strength</b>	Very low	Very low	Excellent
<b>Flexibility</b>	Yes	Yes	Yes
<b>Adhesion</b>	Must be tack coated and compacted	Mainly mechanical interlock	Excellent
<b>Fuel/Chemical/Water Resistance</b>	No	No	Yes
<b>Memory</b>	No	No	Yes; Recovers to original shape after loading
<b>Manpower Requirements</b>	Skilled crew familiar with Special Equipment	No Special skill set required	No Special skill set required