

HORIZONTAL REPAIR SELECTION GUIDE



ADVANTAGES/USES	CONCRETE PATCHING MIX (3U18)	CONCRETE PATCHING MIX AE (3U58M)	METRO MIX 240	METRO MIX 240 AE	RAPID PATCH® Horizontal Repair	RAPID PATCH® COMMERCIAL DOT REPAIR
	Concrete Patching Mix for reporting country general, bridge freek, floor, and parage freek for reporting country general, bridge freek, floor, and parage freek for the distribution of the floor, and parage freek for the distribution of the floor for the distribution of the floor for t	PROSPEC An-Estrained Concrete Patching Mix AE For reporting control acressed, bridge finded, from a set garage finded Acres and the standed cross pating and Set and the find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set finded cross pating and Set find from a set find	Metro Mix 240 High Performance Concrete Mix Manufacture of the Concrete Mix Substitution of the Concrete Mix	PROSPEC Metro Mix 240 AE Control - resided, or or part laid, before one or control of the cont	ProSpect Horizontal Repair Fat setting, non-print mit for heritanti concert repair Indian, not a more famous Burnel and mer of mine Burnel and mer of mine Subschilden and and and and and and and and and an	Regist Protoch Commercial DOT Repair Legist Strategy service for record in grant and entity applications The strategy of the Commercial Strategy of the C
	Durable, Portland cement-based repair mix for concrete pavement, industrial floors, and structural concrete Can be mixed with Air-Entraining Admixture Produced in accordance with MNDOT inspection program Commercial use	Durable, air-entrained, Portland cement-based repair mix for concrete pavement, industrial floors, and structural concrete Can be mixed with Fast-Set Liquid Activator for 4-5 hr. open to traffic Commercial use	High-performance, super plasticized, Portland cement-based engineered concrete mix for small structural projects or when ready-mix truck access is restricted Pumpable Commercial use	High-performance, super plasticized, Portland cement-based engineered concrete mix for small structural projects or when ready-mix truck access is restricted Pumpable Air-entrained for freeze-thaw durability	High-strength, fast-setting, low shrinkage, Portland cement-based concrete patching mix Suitable for DOT horizontal concrete repairs Can be extended with 3%" minus aggregate (up to 25 lb. pea gravel per 50 lb. Horizontal Repair Mix) Commercial use	 High-strength, fast-setting, low shrinkage, hydraulic cement mortar for concrete repair and overlays Suitable for DOT horizontal concrete repairs Can be extended with ¾" minus aggregate (up to 30 lb. pea gravel per 50 lb. Commercial DOT Repair Mix) Commercial use
			APPLICATION			
Thickness	Min 1½" Full depth maximum	Min 1½" Full depth maximum	Min 1½" Full depth maximum	Min 1½" Full depth maximum	Min ½" Max 1" neat Full depth extended	Min ½" Max 2" neat Full depth extended
Initial Set Time @ 70°F	~ 3:00 (hr:min)	4:15-4:45 (hr:min)	~ 6:00 (hr:min)	~ 4:00 (hr:min)	0:33 (hr:min)	0:15 (hr:min)
Final Set Time @ 70°F	~ 4:40 (hr:min)	5:15-5:45 (hr:min)	~ 8:00 (hr:min)	~ 5:30 (hr:min)	1:08 (hr:min)	0:18 (hr:min)
Pot Life @ 70°F	1 hr	1 hr	1 hr	1 hr	20-30 min	10 min
Open to Traffic	6-8 hr (foot) 24 hr (wheel)	6-8 hr (foot) 24 hr (wheel)	6-8 hr (foot) 24 hr (wheel)	6-8 hr (foot) 24 hr (wheel)	2 hr (foot) 8 hr (wheel)	20 min (foot) 3 hr (wheel)
Temperature Use Range	50°F-90°F	50°F-80°F	50°F-100°F	50°F-100°F	50°F-90°F	20°F-90°F
Industry Standards	Meets or exceeds ASTM C387 Meets MN DOT specification 3105 for Grade 3U18	Meets or exceeds ASTM C387 Meets MN DOT specification 3105 for Grade 3U18	Meets or exceeds ASTM C387	Meets or exceeds ASTM C387	Meets or exceeds ASTM C928-R2	Meets or exceeds ASTM C928-R3
Enhancements	Low-slump mix design	Plasticized Air-Entrained	Plasticized Corrosion inhibitors	Plasticized Corrosion inhibitors Air-entrained	High early strength Excellent freeze/thaw and salt resistance	Polymer-modified Non-corrosive
Compressive Strength	>4,000 psi (24 hr.) >7,500 psi (28 day)	>4,000 psi (24 hr.) >8,000 psi (28 day)	>3,500 psi (24 hr.) >9,000 psi (28 day)	>5,000 psi (24 hr.) >8,500 psi (28 day	>1,500 psi (3 hr) >5,790 psi (28 day)	4,000 psi (3 hr.) 10,000 psi (28 day
Suitable Substrates (Refer to Data Sheet for	Concrete (repairs), or full depth with forms	Concrete (repairs), or full depth with forms	Concrete (repairs), or full depth with forms	Concrete (repairs), or full depth with forms	Concrete	Concrete
restrictions and notes)						



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ADVANTAGES/USES	PARTIAL DEPTH Concrete Patch 2:1	PARTIAL DEPTH Concrete Patch 2.5:1	PARTIAL DEPTH Concrete Patch 3:1	CONCRETE RESURFACER	POURABLE CONCRETE PATCH	VINYL CONCRETE PATCH
	PreSPEC Concrete Patch Wigh compressive strength durable patching material 1 September Service 1 September Ser	ProSPEC Partial Depth Concrete Patch Wigh compressive strength durable publishing malerial Strengthenish Mar Far. National artificial residence of the strength durable publishing malerial Strengthenish Mar Far. National Stre	ProSPEC Partial Depth Concrete Patch Wigh compressive strength durable publishing malerial Strengthenish but Fine Partial of the Committee Co	PROSPEC Concrete Resurfacer Fair Milling, Spip performance, prigner modified concert resurfacer But Milling, Spip performance, prigner modified concert resurfacer But Milling Spip performance, prigner modified concert results and prigner modified concert res	ProSpec Pourable Concrete Patch Their root look, floating root pay pay part of root root pay Both state of the State of State	PROSPEC Vinyl Concrete Patch Verwick the instruction provided to balls many new rate and stream or stre and stream or stre bands and stream of stream bands and stream of stream bands and stream of stream concrete data failing
	Durable, Portland cement-based partial depth overlay repair mix for concrete pavement, industrial floors, structural concrete, and filling masonry block cores 2 parts fine sand:1 part Portland cement Commercial use	Durable, Portland cement-based partial depth overlay repair mix for concrete pavement, industrial floors, structural concrete, and filling masonry block cores 2.5 parts fine sand:1 part Portland cement Commercial use	Durable, Portland cement-based partial depth overlay repair mix for concrete pavement, industrial floors, structural concrete, paver bonding and grouting Mix with Mighty Bond additive Japarts fine sand:1 part Portland cement Commercial use	Fast-setting, high-performance, Portland cement-based concrete resurfacing and patching mix Less expensive alternative to concrete replacement Can be pigmented No primer needed Horizontal and vertical Commercial use	Portland cement-based, flowable, squeegee-grade, resurfacing and patching mix Underlayment for new flooring materials Wear surface in residential and light duty commercial applications	Portland cement-based, high-strength patching mix Repair minor concrete surface imperfections and general purpose patching Polymer-modified Excellent resistance to deicing salts Horizontal and vertical application Commercial use
			APPLICATION			
Thickness	Min ½" Max 2"	Min ½" Max 2"	Min ½" Max 2" neat	Feather edge minimum Max ½" per layer	Min 1⁄8" Max 1∕2"	Feather edge minimum Max 2" per layer
Initial Set Time @ 70°F	< 0:30 (hr:min)	< 0:30 (hr:min)	< 0:30 (hr:min)	0:10-0:15 (hr:min)	2:00 (hr:min)	0:30 (hr:min)
Final Set Time @ 70°F	> 6:00 (hr:min)	> 6:00 (hr:min)	> 6:00 (hr:min)	1:30-2:00 (hr:min)	5:15 (hr:min)	1:00 (hr:min)
Pot Life @ 70°F	1 hr	1 hr	1 hr	1 hr	20-30 min	10 min
Open to Traffic	6-8 hr (foot) 1 day (wheel)	6-8 hr (foot) 2 day (wheel)	6-8 hr (foot-overlay) 3 day (wheel-overlay)	2 hr (foot) 8 hr (rubber wheel)	6-8 hr (foot) 24 hr (wheel)	8-12 hr (foot) 48 hour (wheel)
Temperature Use Range	50°F-90°F	50°F-90°F	50°F-90°F	50°F-90°F	50°F-90°F	50°F-90°F
Industry Standards	Meets or exceeds ASTM C387	Meets or exceeds ASTM C387	Meets or exceeds ASTM C387			
Enhancements	High-early and normal strength, no pea gravel	High-early and normal strength, no pea gravel	High-early and normal strength, no pea gravel	Polymer-modified Corrosion inhibitor	Polymer-modified	Polymer-modified
Compressive Strength	>3,000 psi (24 hr.) >7,000 psi (28 day)	>2,200 psi (24 hr.) >5,500 psi (28 day)	>1,800 psi (24 hr.) >4,500 psi (28 day)	>2,400 psi (24 hr.) >5,000 psi (28 day)	>2,000 psi (3 day) >3,500 psi (28 day	>4,000 psi (24 hr.) >7,000 psi (28 day
Suitable Substrates (Refer to Data Sheet for restrictions and notes)	Concrete (repairs), or full depth with forms	Concrete	Concrete			
Color	Gray	Gray	Gray	Gray	Gray	Gray

PROSPEC®

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RAPID PATCH COMMERCIAL DOT RAPID PATCH SELF-LEVELING **PREMIUM PATCH 100 PREMIUM PATCH 200** RESURFACER REPAIR EXTENDED PROSPEC PROSPEC! PROSPEC PROSPEC. **Premium Patch 100 Premium Patch 200 Self-Leveling Resurfacer** Commercial DOT Repair · A fast-setting, fiber-reinforced high • A rapid-setting, fiber reinforced, Designed for concrete repair and overlay · Cement based product for resurfacing applications requiring high durability. strength, cement-based repair mortar high-strength, polymer-modified cement concrete floors with damaged finishes or • Increased flexural stregnth and adhesion designed for applications where high designed for concrete repair and overlay as a wear surface · Improves impact and tensile strengths early strength is needed applications requiring high durability. Provides smooth, hard, flat surface Contains no chlorides or magnesium Improves impact, flexural and tensile No bonding agent needed · Underlayment or wear surface Alkai resistant fibers phosphates strenaths Accepts foot traffic in 6 hours Compatible with Portland cement · Contains corrosion inhibitor Corrosion inhibitor Suitable for DOT horizontal concrete No chlorides or magnesium phosphates • No chlorides or magnesium phosphates repairs Compatible with Portland cement Compatible with Portland cement · Suitable for DOT horizontal concrete Cement based, non-corrosive Suitable for DOT horizontal repairs Non-chemical concrete Commercial use Commercial use Commercial use APPLICATION Feather edge to Apply 1/2in. to 2in. (13-51mm) Apply 1/2in. to 2in. (13-51mm) Thickness Apply 2-24m to 2-24in. 2in (51mm) thick Initial Set Time @ 70°F 0:15-0:18 (hr:min) 0:37 (hr:min) 0:18 (hr:min) Varies Final Set Time @ 70°F 0:18-0:22 (hr:min) 0:46 (hr:min) 0:20 (hr:min) 01:15-01:30 (hr:min) Pot Life @ 70°F 0:15 (hr:min) 0:30 (hr:min) 15 min 15 min Open to Light Traffic 3:00-4:00 (hr:min) 3:00-4:00 (hr:min) 3:00-4:00 (hr:min) 4:00-6:00 (hr:min) 20°F-100°F 40°F-80°F 40°F-80°F 40°F-90°F Temperature Use Range **ASTM 928 R3 Industry Standards ASTM C 928** ASTM C 928 ASTM C109, ASTM C348 Enhancements Corrosion inhibitor Corrosion inhibitor Fiber reinforced, corrosion inhibitor Self-drying technology Compressive Strength N/A Varies. See data sheet. Varies. See data sheet. Varies. See data sheet. Can be used to repair heavy duty surfaces such as Can be used on highway bridge parapets, structure Suitable Substrates Can be used for highway repairs, overlays, bridge decks, Can be used to level prepared horizontal surfaces highways, overlays, bridge decks, parking structures, supports, parking garages, silos and building walls. (Refer to Data Sheet for parking structures, airport runways, taxiways and freezer including new concrete slabs, damaged concrete floors airport runways, freezer rooms, industrial warehouses, Used to waterproof swimming pools, cisterns and water restrictions and notes) and plywood loading docks and wastewater treament facilities resovoirs Color Gray Gray Gray Gray