

December 19, 2023

RAPID SETTING PATCH MATERIALS

Specification Reference:

Part I: 901.07, 722.07 & 509.03

Part II: 901.08 & 710.02

SM Material Code:

Part I: 901M00150

Part II: 901M00155

Source
Code

Manufacturer
Product Name

Approval
Number

Comments

All RSP products need to be placed and cured in accordance with the manufacturer's recommendations.

If applying material below 40°F, must follow the cold weather concreting procedure outlined in ACI 306; or, at temperature above 85°F, must follow the hot weather concreting procedure outlined in ACI 305.

Part I: PRODUCTS FOR BRIDGE DECK REPAIR
and
PARTIAL DEPTH JOINT REPAIR OF PCCP

Specification reference: 901.07, 722.07 & 509.03

SM Material Code: 901M00150

Rapid setting patch materials for bridge deck and partial depth joint repairs shall be in accordance with ASTM C928 with the INDOT exceptions.

9550	BINDAN CORP----- MONO-PATCH	W028590	SELF LEVELING HOT WEATHER
9550	BINDAN CORP----- MONO-PATCH	W028591	SELF LEVELING NORMAL WEATHER
9578	CTS CEMENT----- RAPID SET DOT CONCRETE MIX Limitations: Hot weather use limited to 90°F	W178590	
9578	CTS CEMENT----- RAPID SET DOT REPAIR MIX Limitations: Hot weather use limited to 90°F	W178595	
9564	DAYTON SUPERIOR ----- HD 50 Limitations: Do not apply at temperatures below 40°F without following the cold weather concreting procedures outline in ACI 306	W138591	
9581	MAPEI CORP. ----- PLANITOP 18 ES Limitations: use at ambient temperature between 45°F and 95°F	W178598	

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9581	MAPEI CORP. ----- PLANITOP 18 TG	W228590	
	Limitations: use at ambient temperature between 32°F to 95°F		
9514	SIKA CORPORATION ----- SIKACRETE-421 CI RAPID	W218591	
	Limitations: the recommended application at temperature above 40°F.		
9514	SIKA CORPORATION ----- SIKAQUICK-1000	W218590	
	Limitations: the recommended application range is from 40°F to 95°F		
9514	SIKA CORPORATION ----- SIKAEMACO T 1060	W028593	
	(Formerly Masteremaco T 1060)		
	Limitations: the recommended application range is from 40°F to 85°F		
9514	SIKA CORPORATION ----- SIKAEMACO T 1061	W028592	
	(Formerly Masteremaco T 1061)		
	Limitations: the recommended application range is from 50°F to 85°F		
9553	SPECICHEM ----- REPCON 928	W188590	
	Limitations: the recommended application range is from 55°F to 90°F		
9549	U.S. GYPSUM CO ----- DURACAL AG - DELAYED SET TIME	W028596	
	Limitations: Use at ambient temperature between 45°F and 95°F.		

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9549	U.S. GYPSUM CO ----- DURACAL	W028597	
	Limitations: application, surface and slurry, must be at minimum temperature of 32°F.		
9584	US MIX CO.----- TRANSPATCH CONCRETE	W208590	
	Limitations: the recommended application range is from 40°F to 90°F.		
9568	WESTERN MATERIAL & DESIGN, LLC ----- FASTRAC 246 CONCRETE	W138590	
	Limitations: Hot weather use limited to 90°F.		

Part II: PRODUCTS FOR SUBSTRUCTURE OR VERTICAL/OVERHEAD REPAIRS

Specification reference: 901.08 & 710.02

SM Material Code: 901M00155

All packaged products for patching concrete structures shall be in accordance with ASTM C387 and with the INDOT exceptions (in 901.08) and used in accordance with 710.

Packaged patching products shall be applied to the specific locations recommended by the manufacturer: vertical, overhead or horizontal (form and pour).

Packaged patching products containing magnesium phosphate or calcium aluminate cement shall not be used.

9592	AQUAFIN INC. ----- PAVEMEND SL	W238507	
	Limitations: The recommended application range is from 40° to 120°F		
9592	AQUAFIN INC. ----- PAVEMEND VR	W238508	
	Limitations: The recommended application range is from 40° to 110°F		

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Source Code	Manufacturer Product Name	Approval Number	Comments
9578	CTS CEMENT----- CTS 24/6 CONCRETE MIX	W228500	
	Limitations: The recommended application range is from 45° to 90°F		
9578	CTS CEMENT----- RAPID SET MORTAR MIX PLUS	W218510	
	Limitations: Hot weather use limited to 90°F.		
9578	CTS CEMENT----- RAPID SET MORTAR MIX	W218511	
	Limitations: Hot weather use limited to 90°F.		
9578	CTS CEMENT----- RAPID SET V/O REPAIR	W218512	
	Limitations: Hot weather use limited to 90°F.		
9564	DAYTON SUPERIOR CO----- CIVIL/STRUCTURAL VO	W218513	
	Limitations: Minimum application temperature is 40°F.		
9564	DAYTON SUPERIOR CO----- HD 50	W138591	
	Limitations: For applications below 45°F best results obtained by warming material, water & substrate.		
8268	EUCLID CHEMICAL CO----- EUCOREPAIR V100	W218514	
	Limitations: Minimum application temperature is 45°F. For optimum results, condition material to 65°F to 85°F at least 24 hours prior to use.		
8268	EUCLID CHEMICAL CO----- EUCOCRETE	W218515	
	Limitations: Do not apply at temperatures below 45°F		
8268	EUCLID CHEMICAL CO----- SPEED CRETE PM	W218516	
	Limitations: Minimum application temperature is 45°F.		

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8268	EUCLID CHEMICAL CO----- VERSASPEED 100	W218517	
	Limitations: The application temperature range is 35 to 85°F.		
9581	MAPEI CORP.----- PLANITOP 23	W218518	
	Limitations: the recommended application range is from 40°F to 85°F.		
9581	MAPEI CORP.----- PLANITOP X	W218519	
	Limitations: the recommended application range is from 55°F to 85°F.		
1761	THE QUIKRETE COMPANIES, LLC ----- FASTEST REPAIR MORTAR	W238506	
	Limitations: Mix no more than can be used in 15 minutes.		
1761	THE QUIKRETE COMPANIES, LLC ----- QUIKRETE FORM & POUR CONCRETE MIX MS	W238503	
	Limitations: Concrete should be protected from freezing during the first 48 hours.		
9514	SIKA CORPORATION----- SIKACRETE 211 SCC PLUS	W218521	
	Limitations: Minimum application temperature is 45°F.		
9514	SIKA CORPORATION ----- SIKACRETE-421 CI RAPID	W218591	
	Limitations: the recommended application at temperature above 40°F.		
9514	SIKA CORPORATION ----- SIKAEMACO 440	W218508	
	(Formerly Masteremaco S 440)		
	Limitations: the recommended application range is from 40°F to 90°F.		

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9514	SIKA CORPORATION ----- SIKAEMACO 488 CI (Formerly Masteremaco S 488 CI) Limitations: the recommended application range is from 50°F to 85°F.	W218509	
9514	SIKA CORPORATION----- SIKAQUICK VOH Limitations: Minimum application temperature is 45°F.	W218522	
9553	SPECICHEM----- REPCON 928 Limitations: the recommended application range is from 55°F to 90°F.	W188590	
9589	SPECCO INDUSTRIES----- SPECCOPATCH RS (V/O) Limitations: the recommended application range is from 40°F to 90°F.	W218523	
9584	US SPEC a Division of US MIX Co.----- Quickset Limitations: the recommended application range is from 40°F to 90°F.	W218524	
9568	WESTERN MATERIAL & DESIGN, LLC ----- FASTRAC 246 CONCRETE Limitations: Hot weather use limited to 90°F.	W138590	
9603	W.R. MEADOWS, INC----- MEADOW-CRETE GPS Limitations: the recommended application range is from 40°F to 90°F.	W218520	