



Pavement Repair Material Certification Program

Packaged, Cementitious and Polymeric Materials for Concrete Airfield Repairs

Since 2005, the U.S. Air Force Civil Engineer Center (AFCEC) has evaluated and certified packaged, cementitious and polymeric materials for conducting concrete airfield repairs. Funding is provided to the U.S. Army Engineer Research and Development Center (ERDC) in Vicksburg, MS to conduct laboratory and field evaluations of materials under consideration. The AFCEC only recommends approved materials from the table below.

To participate in the certification program, manufacturers shall submit Materials Safety Data Sheet (MSDS) and a Technical Data Information Sheet to AFCEC for consideration in the testing program. Products selected for further consideration will be tested according to testing protocols described in Engineering Technical Letters (ETLs) [08-02](#) (cementitious) and [08-04](#) (polymeric).

If the materials meet or exceed the minimum requirements detailed in the ETLs, the materials will be given tentative approval, contingent upon satisfactory performance in the field. If future samples of these materials do not meet minimum requirements, the product may be removed from the approved product list and subject to other failing material procedures. Please also note that it is the manufacturer's responsibility to immediately notify AFCEC or ERDC if the chemical formulation of any product is changed or modified, or if the product is no longer being produced. If our testing determines that the chemical formulation has changed, without prior notification from the manufacturer, the product may be removed from the approved product list.

POC:

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Approved Repair Material Matrix

Current Repair Material Information						Temporary Repairs			Permanent Airfield Repairs								
Material Classification	Product Name	Manufacturer	Previous Names	Last Tested	Currently Produced? ^A	Crater Repairs			Primary Runways and Taxiways			Secondary Runways, Secondary Taxiways, and Parking Aprons					
						Small Patch	Large Patch	Expeditionary Spall Repairs	Spall	Small Patch	Large Patch	Full Slab	Spall	Small Patch	Large Patch	Full Slab	
Cementitious	Biocrete QSP	Ecoworld		2015 ^C	Yes												
Cementitious	DOTLine	CeraTech, Inc.		2013	Yes			X	X	X	X		X	X	X		
Cementitious	Elephant Armor DOT Industrial Grade Mortar	GST International		2015 ^C	Yes												
Cementitious	Great White	CeraTech, Inc.		2009	Yes							X					X
Cementitious	HD-50	Dayton Superior Corp.		2010 ^B	Yes			X	X	X			X	X			
Cementitious	Magnacrete	Henkel Americas		2015 ^B	Yes												
Cementitious	Pavemend 15	CeraTech, Inc.		2014	Yes			X									
Cementitious	Pavemend SLQ	CeraTech, Inc.		2008	Yes			X	X	X			X	X			
Cementitious	Pavemend TR	CeraTech, Inc.		2008	Yes								X	X	X		

Cementitious	Pavepatch 3000	Dayton Superior Corp.		2008	Yes			X				X	X		
Cementitious	ProSpec Premium Patch 200	H.B. Fuller Construction Products Inc.		2015 ^B	Yes			X	X	X		X	X		
Cementitious	Fast Set DOT Concrete Mix	Quikrete Companies		2010	Yes			X	X	X	X	X	X	X	
Cementitious	Rapid Set Concrete Mix	CTS Cement Corp.		2010 ^C	Yes	X	X	X	X	X	X	X	X	X	X
Cementitious	Rapid Set DOT Repair Mix	CTS Cement Corp.		2007	Yes			X							
Cementitious	Rapid Set Mortar Mix	CTS Cement Copr.		2015 ^B	Yes										
Cementitious	MasterEmaco T545HT	BASF	Set 45 HW	2007	Yes			X	X	X	X	X	X	X	
Cementitious	MasterEmaco T545	BASF	Set 45	2007	Yes			X	X	X	X	X	X	X	
Cementitious	SikaQuick 2500	Sika Corp		2008	Yes			X	X	X		X	X		
Cementitious	Super Jet Concrete Mix	Miyuki Co. - Onoda Chemico Co.		2015 ^C	Yes										
Cementitious	Ultimax Concrete Mix	Ultimax Cement		2008	Unknown			X	X	X	X	X	X	X	X
Cementitious	Ulti-Pave 3	Buzzi-Unicem USA, Inc.		2014	Yes			X	X	X	X	X	X	X	X
Cementitious	Versaspeed	Euclid Chemical Co.		2008	Yes			X							
Cementitious	MasterEmaco T1060	BASF	10-60 Repair Mortar	2007	Yes			X	X	X	X	X	X	X	X
Cementitious	MasterEmaco T1061	BASF	10-61 Repair Mortar	2007	Yes			X	X	X	X	X	X	X	X
Polymeric	MasterEmaco S6000	BASF	Degadeck	2007	Yes			X	X			X			

^A As of March 2015

^B Under evaluation as of March 2015

^C Prospective/tentative product

Nonapproved Repair Materials

Material Classification	Product Name	Manufacturer	Previous Names	Last Tested	Currently Produced?
Polymeric	10 Minute Mender	Roadware Inc.		2007	Yes
Cementitious	Ardex TRM	Ardex Americas		2014	Yes
Polymeric	Delpatch M	D.S. Brown		2010	No
Polymeric	Dopey Soup	GeoChem		2010	Yes
Polymeric	Elastofil 75	Chemline, Inc.		2007	Yes
Cementitious	Express Repair	Euclid Chemical Co.		Unknown	Yes
Cementitious	FasTrac	Western Material and Design, LLC		2010	No
Cementitious	Fast Set Concrete Mix	Quikrete Companies		2014	Yes
Polymeric	Flexpatch	Silicone Specialties, Inc.		2007	Yes
Polymeric	FX-826	Fox Industries		2007	Yes

Cementitious	Futura 15	W.R. Meadows		2008	Yes
Cementitious	Mainline	Cera Tech, Inc.		2009	No
Cementitious	Pavemend EX-H	Cera Tech, Inc.		2007	No
Cementitious	Pavemend SL	Cera Tech, Inc.		2013	Yes
Cementitious	Pavemend VR	Cera Tech, Inc.		2008	Yes
Cementitious	Phoscrete 4-Seasons	Phoscrete Corp.	Phoscrete 601	2013	Yes
Polymeric	PRO-POXY 2500	Dayton Superior		2009	Yes
Polymeric	PRO-POXY AWP	Dayton Superior		2009	Yes
Cementitious	Rapid Road Repair	Quikcrete Companies		2014	Yes
Polymeric	Sikadur 21 LV	Sika Corp.		2007	Yes
Cementitious	Speedcrete 2028	Euclid Chemical Co.		2010	Yes
Cementitious	Veraspeed LS	Euclid Chemical Co.		2012	Yes

Documents

[Memorandum-Spall/Crater Repair Material Testing Protocol Development](#)

[Technical Report-Advanced Airfield Damage Repair Technologies- Phase I](#)

[Technical Report-Laboratory and Field Investigations of Small Crater Repair Technologies](#)

[Technical Report-Laboratory and Field Evaluation of Rapid-Setting Cementitious Materials for Large Crater Repair](#)

[Technical Report-CRATR Limited Operational Utility Assessment 1 \(LOUA1\), Tyndall Air Force Base, Florida](#)

[Technical Report-Certification Tests on Cold Patch Asphalt Repair Materials for Use in Airfield Pavements](#)

[Engineering Technical Letter \(ETL\) 08-2: Testing Protocol for Rigid Spall Repair Materials](#)

[Engineering Technical Letter \(ETL\) 08-4: Testing Protocol for Polymeric Spall Repair Materials](#)

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