

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

MEMORANDUM

GENERAL SUBJECT: Addition of Approved List No. 85 for Cement Manufacturers	NUMBER: MD 402-16
SPECIFIC SUBJECT: Approved Cement Manufacturers Posted on Approved List No. 85 with Maximum Alkalinity Content	DATE: June 21, 2016
	SUPERSEDES:
APPROVED:	Charles A. Babish, PE State Materials Engineer Approved: _____

EFFECTIVE DATE

- This memorandum is effective **July 1, 2016**.
-

PURPOSE

- This memorandum notifies a user of the Materials Division's Approved Lists that Approved List 85 is being added, detailing all Cement Manufacturers approved by VDOT. The list of approved cement sources has not changed, but will now be published for the general public's viewing and will include maximum alkalinity content data. It will also include instructions for cement manufacturers as to how to get onto Approved List No. 85, as well as what is required of the manufacturers to remain on Approved List No. 85.
 - This memorandum also updates acceptance procedures for hydraulic cement in Section 204.09 of the manual of Instructions related to List No. 85.
-

Changes are shaded

PROCEDURES

The following Approved List No. 85 has been added to VDOT's Approved Lists for all approved sources, manufacturers, and products:

(85) CEMENT MANUFACTURERS - (Physical Lab)

The following list of cement manufacturers is approved for use in hydraulic cement concrete. To have a product included on the Approved List No. 85 for Cement Manufacturers, the following shall be submitted to the Materials Division's Physical Laboratory Assistant Concrete Program Manager: a letter with a notarized signature documenting that each cement type used on VDOT projects meets the requirements in Section 214 of the VDOT Road and Bridge Specifications. The letter shall include the maximum alkali content that the cement will not exceed for the calendar year. If submitting a letter for blended cement (Type IP or IS), the percent mineral admixture for the types of blended cement with mineral admixture added shall be listed in parentheses, e.g. Type IP(20). A one gallon sample of cement with the corresponding mill certification shall also be submitted for each type of cement.

Upon approval, the Cement Manufacturer will be required to submit a letter with a notarized signature stating that the cement meets the VDOT requirements, annually by December documenting the maximum alkalinity content for the following calendar year for each type of cement. Mill certification shall be submitted monthly and a gallon sample shall be submitted each quarter.

Cement Source	Type	Plant ID	Maximum Alkali Content (%)	Remarks
Argos				
Harleyville, South Carolina	I/II/III	20	0.60	
Newberry, FL	I/II	108	0.60	
Cemex				
Knoxville, TN	I / II	15	0.60	
Essroc Italcementi Group				
Devnya, Bulgaria	I / II LA	76	0.60	
Martinsburg, WV	I/II/III	12	1.00	
Martinsburg, WV	II LA	12	0.60	
Speed, Indiana	I/II	51	0.60	
Federal White Cement				
Woodstock, Ontario Canada	I	112	0.30	
Giant Cement Company				
Harleyville, South Carolina	I/II	52	0.60	
Holcim Inc.				
Holly Hill, SC	I / II	16	0.60	
Holly Hill, SC	III	16	0.60	

Cement Source	Type	Plant ID	Maximum Alkali Content (%)	Remarks
Lehigh Heidelberg Cement Group				
Akcansa cement Canakkale, TR	I / II	73	0.60	
Evansville, PA	I/II/III	83	0.95	
Union Bridge, Maryland	I/II	10	0.60	
Union Bridge, Maryland	III	10	0.60	
Roanoke Cement				
Kamari plant, Greece	I/II	62	0.59	
Huaxin , China	I/II	97	0.60	
Patras Plant, Greece	I/II	93	0.59	
Roanoke Plant, Troutville, VA	I/II/III	6	0.75	

BLENDED CEMENTS

In order to comply with the VDOT Road and Bridge Specifications Sec. 217, additional mineral admixtures may need to be added.

Cement Source	Type	Plant ID	Maximum Alkali Content (%)	Remarks
Essroc Italcementi Group				
Martinsburg, WV	IP(varies)	12		*In order to comply with the VDOT Road and Bridge Specifications Sec. 217, additional mineral admixtures may need to be added, depending on the percentage of fly ash added, provided by the manufacturer.
Holcim Inc.				
Holly Hill, SC	IS(20)	16		*In order to comply with the VDOT Road and Bridge Specifications Sec. 217, additional mineral admixtures will need to be added.

Cement Source	Type	Plant ID	Maximum Alkali Content (%)	Remarks
Lehigh Heidelberg Cement Group				
Evansville, PA	IS(40)	83		*In order to comply with the VDOT Road and Bridge Specifications Sec. 217, additional mineral admixtures will need to be added.

- **Sec. 204.09 Cement, Hydraulic** in Chapter II of the Manual of Instructions has been updated to reflect all changes made by this MD. The paragraph highlighted above under Approved List No. 85 and minor changes were made to Sec. 204.09.

NOTES

REFERENCES

COPY DISTRIBUTION:

Deputy Chief Engineer
 Division Administrators
 District Administrators
 District Location & Design Engineers
 District Construction Engineers
 District Maintenance Engineers
 District Bridge Engineers
 District Traffic Engineers

VDOT Resident Engineers
 Federal Highway Administration
 Virginia Ready Mix Association
 Precast Concrete Association of Virginia
 Virginia Transportation Construction Alliance
 Virginia Asphalt Association
 American Concrete Paving Association Mid-Atlantic Chapter
 Old Dominion Highway Contractors Association