



Declaration of performance

## FLY ASH FOR CONCRETE, MORTAR AND GROUT

Nr: 0956-CPR-1320-A05

1. Unique identification code of the product type:  
Fly ash for use as type II filler in concrete, mortar and grouts according to NEN-EN 450-1:2012.
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):  
Fly ash  
RWE Eemshaven Holding B.V.  
Centrale Eemshaven  
Synergieweg 1  
9979 XD Eemshaven  
Netherlands.
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer.  
Addition for the production of for use in concrete, according to NEN-EN 206-1 and for use in mortar and grout.
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11(5):  
RWE Eemshaven Holding B.V.  
Centrale Eemshaven  
Synergieweg 1  
9979 XD Eemshaven  
Netherlands.
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):  
Not applicable.
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:  
System 1+.
7. Activity of the notified certification body as required in the harmonised standard:  
The notified certification body Kiwa Nederland B.V. (identification number 0956) has performed under System 1+ the initial inspection of the factory production control and also performs the continuous surveillance, assessment and evaluation of the production control.
8. European Technical Approval:  
Not applicable.

9. Declared performance:

Essential characteristics	Performance	Harmonised technical specification
Activity index	28 d $\geq$ 75% 90 d $\geq$ 85%	NEN-EN 450-1:2012
Fineness $\geq$ 45 $\mu$ m	category N; 10-30%	
Soundness - expansion - free calcium oxide (CaO)	$\leq$ 10 mm $\leq$ 1.5 %	
Loss on ignition	category A; $\leq$ 5%	
Composition: - sum of silicium dioxide (SiO <sub>2</sub> ), Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) and iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) - total content of alkali (Na <sub>2</sub> O <sub>eq</sub> ) - reactive silicium dioxide (SiO <sub>2</sub> ) - sulphate content (SO <sub>3</sub> ) - chloride (Cl) - reactive calcium oxide (CaO) - magnesium oxide (MgO) - soluble phosphate (P <sub>2</sub> O <sub>5</sub> ) - total phosphate (P <sub>2</sub> O <sub>5</sub> )	$\geq$ 70%  $\leq$ 4.5% $\geq$ 25% $\leq$ 3% $\leq$ 0.1% $\leq$ 10% $\leq$ 4% $\leq$ 100 mg/kg $\leq$ 5 %	
Particle density	2300 $\pm$ 200 kg/m <sup>3</sup>	
Initial setting time; difference between cement and fly ash cement paste	$\leq$ twice as long as the initial setting time of cement paste.	
Durability	NPD <sup>1</sup>	
Release of dangerous substances and emission of radiation	NPD <sup>2</sup>	

<sup>1)</sup> the composition and performance of fly ash is such, that with this fly ash concrete can be produced (see NEN-EN 206-1)

<sup>2)</sup> Fly ash contains no substances which, if released from concrete, mortar or grout, are dangerous for health, hygiene and the environment. In accordance with article 31 of the REACH Regulation No additional information is necessary. The product is registered and has no danger properties according to CLP.

NPD: No Performance Determined.

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:



Eric-Jan Vaes  
Operations manager