



**PAGEL**<sup>®</sup>  
SPEZIAL-BETON GMBH & CO KG



DECLARATION OF PERFORMANCE  
according Annex III of the Regulation (EU) No 305/2011

U80 PAGEL Universal Mortar

No. 230008

1. Unique identification code of the product-type:  
EN 1504-3: ZA.1a
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):  
batch number: see packaging of the product
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
  - Product for Structural and non structural repair for concrete
    - Applying mortar by hand (3.1)
    - Recasting with concrete (3.2)
    - Spraying concrete or mortar (3.3)
  - Structural strengthening by adding mortar or concrete (4.4)
  - Increasing cover to reinforcement with additional cementitious mortar or concrete (7.1)
  - Replacing contaminated concrete (7.2)

PCC Mortar for structural and non structural repair for concrete  
(on the basis of hydraulic cement)
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

PAGEL SPEZIAL-BETON GMBH & CO. KG  
Wolfsbankring 9  
45355 Essen, Germany
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):  
not relevant
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
  - System 2+ (for uses in buildings and civil engineering works)
  - System 4 (for uses subject to reaction to fire regulations)



7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

*EN 1504-3, System 2+:*

The notified body Qualitätsgemeinschaft Deutsche Bauchemie e.V., identification number 0921, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued:

Certificate of conformity of the factory production control  
0921 - CPR - 2034

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:  
not relevant

9. Declared performance

Essential characteristics	Performance	Harmonised Technical specification
Compressive strength	class R4	EN 1504-3:2005
Chloride ion content <sup>1)</sup>	≤ 0,05 %	
Adhesive bond	≥ 2,0 MPa	
Restrained shrinkage/expansion <sup>2)</sup>	≥ 2,0 MPa	
Carbonation resistance <sup>1) 3)</sup>	passed	
Elastic modulus	≥ 20 GPa	
Thermal compatibility	NPD	
Skid Resistance	NPD	
Coefficient of thermal expansion <sup>4)</sup>	NPD	
Capillary absorption	NPD	
Reaction to fire	A1	
Dangerous substances	NPD	

<sup>1)</sup> Only relevant for repair of reinforced concrete

<sup>2)</sup> Not required if thermal cycling is undertaken

<sup>3)</sup> Not required if the repair product includes a surface protection system with proven protection against carbonation (EN 1504-2) or is a PC mortar

<sup>4)</sup> Relevant to PC only

<sup>5)</sup> Also possible A1, A2, B, C and D, whereby the last four classes in Germany for the time being need an approval from DIBt. The possible class F is not admitted in Germany. This class means in Germany „readily flammable“. In other European MS this class means „no performance determined“ (NPD)“ and is admitted with consideration of the valid regulation in the respective MS



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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:

Daniel Schempershofe, Head of Laboratory  
(name and function)

Essen, 01.07.2013  
(place and date of issue)

*D. Schempershofe*  
.....  
(signature)