

 Heidelberg Materials Devnya Industrial zone 9160, Devnya, Bulgaria www.heidelbergmaterials.bg	
23	
HMD/CPR-20/00	
2032-CPR-23.5A	
EN 197-1:2011	
Portland - Composite Cement BDS EN 197-1 – CEM II/B-M (P-LL) 42,5 N (BRAVO CEM)	
Cement for preparation of concrete mixture, mortars, etc:	
Essential characteristic are accessed in accordance with BDS EN 197-1:2011	

DECLARATION OF PERFORMANCE
HMD/CPR-20/00

relative to weighing note №

«kno» / «date»

1. Unique identification code of the product type: **Portland- Composite Cement– CEM II/B-M (P-LL) 42,5 N**

2. Commercial name **BRAVO CEM**

3. Type **Portland- Composite Cement– CEM II/B-M (P-LL) 42,5 N**

4. Intended use/es of the construction product in accordance with the applicable harmonized technical specification **Cement for preparation of concrete mixture, mortars, etc.**

5. Manufacturer: **Heidelberg Materials Devnya, Industrial zone 9160, Devnya, Bulgaria,
www.heidelbergmaterials.bg**

6. System of assessment and verification of constancy of performance of the construction product **System 1+**

7. Harmonized standard **EN 197-1:2011**

8. Notified body **Notified body for product certification NB 2032**
(2032, Building Research Institute NISI), carried out the product type determination based on type testing (including sampling), the initial inspection of the manufacturing plant and factory production control, continuous monitoring, evaluation and assessment of factory production control and audit-testing of samples taken before placing the product on the market under System 1+ and issued a certificate of constancy of performance, number: 2032-CPR-23.5A

9. Declared performance

Essential characteristics	Performance parameter	Harmonized technical specification
Common cements (subclasses), constituents and composition	CEM II/B-M (P-LL)	
Compressive strength early 2d	42,5 N	
standard 28d	≥ 10 MPa	
	≥ 42,5 ≤ 62,5 MPa	BDS EN 196-1
Setting time	≥ 60 min	
Soundness-Expansion	≤ 10 mm	
Sulphates(SO ₃) content	≤ 3.5 %	
Chloride content	≤ 0.10 %	
Determination of dangerous substances - The content of soluble chromium VI	≤ 2 ppm *	BDS EN 196-10

* Does not apply to cements and cement-containing mixtures that are used in controlled, closed and fully automated processes where the cement and cement-containing mixtures are processed entirely by machines and where there is no possibility of skin contact. For products containing an additive that reduces the content of water-soluble chromium Cr 6+ according to Regulation (EC) 1907/2006, the manufacturer indicates the period of effectiveness of the additive in compliance with the cement storage conditions. This term for cement in bags is up to 3 months from the packaging date indicated on the packaging and up to 1 month from the date of sale for bulk cement.

Signed for and on behalf of the manufacturer by:
Devnya, 14.11.2023

Nadezhda Chankova
Quality Manager

