

**TECHNICAL INSTRUCTION FOR CEMENT CEM II/B-M(P-S) 32,5R****Product: CEM II/B-M(P-S) 32,5R, Mixed Portland cement****Strength rank: 32,5R according to norm EN 197-1:2011****Product description and application:**

Cement CEM II/B-M(P-S) 32,5R. is used for concrete and mortar production for construction works in prescribed conditions for reinforced and unreinforced concrete elements of lower strength ranks. It is applied for construction of family houses especially for glazings and bases, foundations, bearing and nonbearing concrete structures. It is also used for road construction for making of stabilization layers. Cement contains minimum 65% portland clinker, up to 35% mixed additive, a mixture of natural tuff and slag (tuff -P) and slag (S), binding regulator (natural gypsum). Combination of quantity and type of additive provides slower hydration reaction ( it develops lower hydration heat). During concrete production cement provides good workability, easier placing and increased chemical resistance in comparison to pure Portland cement.

**Instruction for use:**

When dosing it is necessary to hold on to concrete structure project. When preparing concrete mixture one must use results of first concrete testing, concrete project and carry out prescribed concrete quality control.

**Characteristics:**

Characteristic values of mechanical, physical and technical properties for cement CEM II/B-M (P-S) 32,5R and requirements according to norm EN 197-1:2011.

<b>Mechanical and physical properties:</b>	<b>CEM II/B-M(P-S) 32,5R</b>	<b>Norm requirement</b>
Start of binding (min)	200	≥ 75
Volume stability acc. to Le Chatelier (mm)	0,4	≤ 10
Pressure strength after 2 days (MPa)	16	≥ 10
Pressure strength after 28 days (MPa)	42	≥32,5 ≤ 52,5
<b>Chemical properties:</b>		
SO <sub>3</sub> (%)	3,2	≤ 3,5
Cl (%)	0,009	≤ 0,10

**Quality control:**

Production process is part of integrated management system certified according to international norms ISO 9001:2015 and ISO 14001:2015, OHSAS 18001:2007 and ISO 50001:2018. In addition to regular internal quality control in all phases of production process Institute for Civil Engineering in Zagreb Croatia carries out independent control. Product is subject to compliance proof according to EN 197-1:2011.

**Certificate of constancy of performance:** Issued by Institut IGH d.d. Zagreb

**Declaration of performance:** 2477-CPR-2765-NC04-001 from 09/01/2020. Declaration of performance available at: [www.nexe.hr/en](http://www.nexe.hr/en) / PRODUCTS&SERVICES/ Cement/ Declaration of performance CEM II/B-M(P-S) 32,5R (number: 2477-CPR-2765-NC04-001).

**Delivery, transport and storage:**

Cement is delivered in bulk in cisterns.

Bulk cement is delivered in dry and clean cisterns without organic and anorganic impurities. Bulk cement should be stored in concrete or metal silos isolated from atmospheric agents. It is recommended to fill the same silo with one type of cement, i.e. not mix different types of cement.

**Best before:** 3 months from date of despatch on Despatch note, if conditions of transport and storage are met.

**COUNTRY OF ORIGIN: REPUBLIC OF CROATIA**

Technical information from this instruction is given according to latest information we dispose of, as general instructions only and are subject to change without previous notice. Information regarding cement content and property values are characteristic and approximate.

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**DANGER**

H318 Causes serious eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation
P102 Keep out of reach of children
P280 Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention
P261+P304+P340+P312: Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P501 Dispose of contents/container according to national regulations.

