



HEIDELBERGCEMENT
PRODUCTION IN GEORGIA

for better building

CEM II 32.5

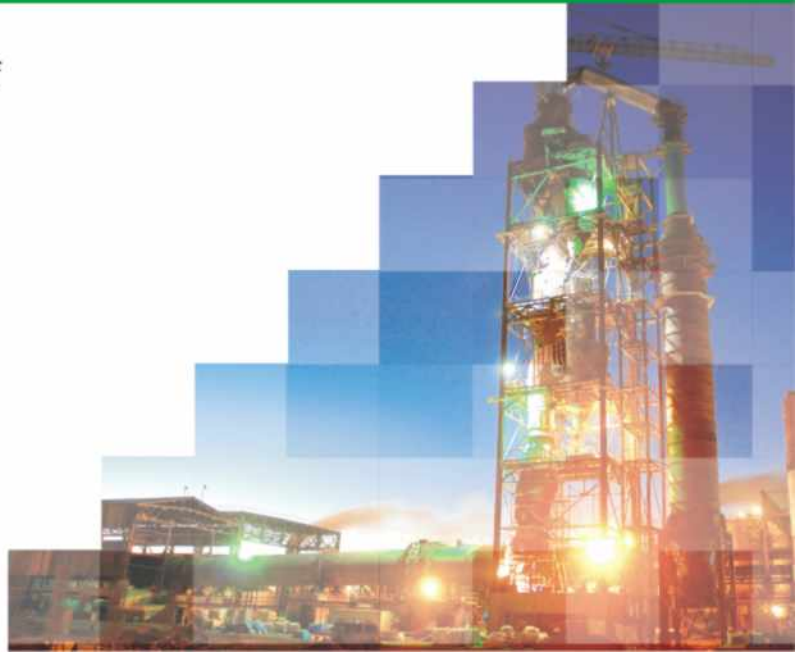
CEM II 32.5 Portland cement is manufactured by way of addition of ecologically pure, active mineral natural pozzolanas, which alongside with improving thickening and physical-mechanical properties of cement and concrete.

CEM II 32.5 Portland cement is more widespread and has a wide area of usage. Building norms and regulations are basically oriented at use of the aforesaid cement.



Cement of CEM II 32.5 type is used for manufacturing of C8/10 – C25/30 class concretes, ferroconcretes, their composite and monolithic constructions such as:

- building mortars;
- road-building constructions;
- average height buildings;
- protective and bounding constructions for sea and river embankments;
- dams and canals;
- waste depots.





PRODUCTION IN GEORGIA

CEM I 32.5 R-SR5

Sulphate resistant cement as opposed to usual cement has the following characteristics:

- intensified resistance to sulfate-containing mineral waters;
- lesser heat release;
- weakened intensity of strengthening;
- high frost resistance.

Sulphate resistant cement is intended for hydrotechnical, underground, sea building, especially urgent is its use for underground building in Tbilisi in conditions of hot sulfur-containing waters. Sulphate resistant cement is used for manufacturing of such concretes which should comply with special requirements. These requirements are the following:

- resistance to sulfate corrosions;
- resistance to sulfate corrosions when simultaneously there takes place constant freezing – defrosting or drying up – damping.

Sulfate corrosion of concrete occurs as a result of influence of natural sulfur-containing waters. Sulfur-containing sulfate water after penetration into concrete (if there is found excess of CaO there) generates cement “bacillus” (ettringite) which expands and activates increase of internal pressure and tension in the concrete mass and accordingly, deformation, fracture and destruction of concrete.





PRODUCTION IN GEORGIA

CEM I 42.5

CEM I 42.5 Portland cement is for general building purpose and is used for manufacturing of composite, monolithic constructions and structures made of high class C20/25–C45/55 concretes and ferroconcretes.

Area of usage of CEM I 42.5 cement type can be the following:

- hydro technical and sea structures built in accordance with modern technologies;
- bridges and highways;
- high-rise buildings and skyscrapers;
- protective and bounding constructions for embankments;
- tunnels and underground railroads;
- airdrome landing strips.





PRODUCTION IN GEORGIA

Novelty: CEMFIX

Since 2010 HeidelbergCement, for the first time in Caucasus, has been offering to consumers a new product CEMFIX which is specially formulated and manufactured to produce masonry mortar for use in brick, block and stone masonry construction. CEMFIX is also used to produce stucco.

Technical Characteristics

		CEM II 32.5 N		CEM I 32.5 R-SR5		CEM I 42.5 N		CEM I 42.5 R	
Characteristic name		Norm	Actual	Norm	Actual	Norm	Actual	Norm	Actual
Setting times/min	Initial	≥75	124	≥75	115	≥60	110	≥60	96
	Final	–	200	–	200	–	176	–	181
Blain cm ₂ /g		–	3840	–	3425	–	3780	–	3845
Compressive strength 2 days / mpa		–	17,0	≥10.0	13,23	≥10.0	19,92	≥20.0	22,25
Compressive strength 7 days / mpa		≥16.0	27,0	–	–	–	–	–	–
Compressive strength 28 days / mpa		≥32.5 ≤52.5	40,9	≥32.5 ≤52.5	41,22	≥42.5 ≤62.5	49,85	≥42.5 ≤62.5	50,14
SO ₃ %		≤3.5	2,5	≤3.0	2,5	≤3.5	2,6	≤4.0	2,5
Volume change / mm		≤10	Steady	≤10	Steady	≤10	Steady	≤10	Steady



PRODUCTION IN GEORGIA

HeidelbergCement is the global market leader in aggregates and a prominent player in the fields of cement, concrete and other downstream activities, making it one of the world's largest manufacturers of building materials. The company employs some 53,000 people at 2,500 locations in more than 40 countries.

HEIDELBERGCEMENT IN GEORGIA

HeidelbergCement entered the Georgian market in 2006 and made significant investments in two cement production companies: SaqCementi and Kartuli Cementi. Kartuli Cementi owns the modern plant with European standards in Rustavi, and SaqCementi runs Kaspi (former "KaspiCementi") and Rustavi (former "RustavCementi") plants. Investment mainly was oriented on plants modernization process.

HeidelbergCement is one of the biggest employers on Georgian market. More than 1000 people are working in HeidelbergCement Georgia. The trade mark of Kartuli Cementi and SaqCementi product is "HeidelbergCement Georgia".

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