



AALBORG WHITE®

White Cement – Made in Denmark



Use

AALBORG WHITE® cement gives you the opportunity to choose among all the colours of the spectrum when producing your concrete or dry mix.

- White concrete is obtained by mixing AALBORG WHITE® cement with pure, light sand and white aggregates like white granite, white marble or crushed calcined flint.
- Light grey concrete is obtained by mixing with ordinary aggregates or with grey portland cement.
- Coloured concrete is obtained by mixing with pigments.

AALBORG WHITE® cement is often used in white or coloured dry mix for facings. AALBORG WHITE® is also perfect in concrete for panels, balconies, cornices, ornaments, paving stones and flags, sculptures, in terrazzo, for swimming pools and in light pointing mortar.

The light-reflecting properties of AALBORG WHITE® provide traffic with additional safety when you produce kerbs, road-markings, medium barriers, tunnel linings and tunnel ramps.

Product

AALBORG WHITE® cement made in Denmark is a rapid hardening portland cement with high early (2 days) and standard (28 days) strengths, produced of extremely pure limestone and finely-ground sand.

AALBORG WHITE® cement made in Denmark is characterised by the white colour, the high consistency, the extraordinarily low content of alkali (Na_2O), high sulphate resistance (low C_3A -content) and a chromate content ≤ 2 mg/kg.

Product Certificate

AALBORG WHITE® cement made in Denmark operates under a quality management system which complies with the requirements of EN ISO 9001:2000, registered with Dancert.

AALBORG WHITE® cement made in Denmark has an EC-certificate according to the European cement standard EN 197-1:2000.

AALBORG WHITE® cement made in Denmark conforms to local standards on all markets.

AALBORG WHITE® cement made in Denmark complies with the requirements of the American ASTM C 150-02a for type I, II, III and V cement as well as for low alkali cement.

Type V cement must contain less than 5% tricalciumaluminate (C_3A). Furthermore, AALBORG WHITE® cement made in Denmark is product certified by the Danish certification body Dancert under the above-mentioned EC-certificate of conformity of cement to EN 197-1:2000, certificate no. 1035-CPD-700541.

AALBORG WHITE® cement made in Denmark is under environmental management system certified according to EN ISO 14001.

Aalborg Portland A/S

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AALBORG WHITE® is a trade mark registered by Aalborg Portland A/S

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Product data

AALBORG WHITE® made in Denmark	
Type	CEM I 52.5 R
Strength class	52.5 R
C ₃ A	4-5%
Alkali content	0.2 - 0.3%
Expansion (mm)	0 - 2
L.O.I.	0 - 1.0%
SO ₃	1.8 - 2.3%
Chloride	0 - 0.02%
γ-Reflection	85.0 - 89.5%

Density and setting	
Specific density (kg/m ³)	3120-3180
Bulk density (kg/m ³)	1100
Initial set (min)	85-130

Cement strength				
	1 day MPa	2 days MPa	7 days MPa	28 days MPa
	18-24	34-42	55-67	70-79

»As per Oct. 2005«

AALBORG WHITE®

is available in:
20 kg paper bags
25 kg paper bags
40 kg paper bags
42.8 kg paper bags
50 kg paper bags
Big bags of approx. 1500 kg
and in bulk by cement
trucks, railway wagons
or vessel.

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Mix Designs

Alkali content

AALBORG WHITE® cement made in Denmark has a low equivalent alkali content (acid-soluble alkalis). By most national standards the cement can be described as a low-alkali cement.

Sulphate resistance

AALBORG WHITE® cement made in Denmark is cement with high sulphate resistance by most national standards, as the content of the cement clinker mineral C₃A is below 5%.

Chromate content

AALBORG WHITE® cement made in Denmark has a low content of chromate of ≤ 2 mg/kg.

From Cement to Concrete

Water

Use clean water e.g. tap water.

Aggregates

The aggregates have a major effect on the appearance of the finished concrete surface. The aggregates should therefore be selected, stored and used in an appropriate way so as to meet the aesthetic demands to the finished concrete surface. The mix of the aggregates should be kept as constant as possible in order to avoid differences in shade of the finished concrete surface.

Admixtures

All admixtures should be colourless to avoid discoloration of the white or light concrete.

Air entraining agents are known to reduce the tendency of efflorescence.

Such admixtures that act upon the setting and hardening should also be used in accordance with usual guidelines. To ensure the requested white colour it is recommended always to make trial mixes.

Constructions and casting

The constructions should be of a design that is suitable for repelling pollution from percolating water and dirt.

Particular care must be exercised in the choice of basic materials, casting materials, mixing and casting processes, curing, and finishing.

From Cement to Mortar

AALBORG WHITE® is often used as binder in various types of mortar and together with lime in a lime-cement mortar. Tools used for mixing the mortar should be stainless in order to preserve the white colour.

Storage

AALBORG WHITE® cement can be stored for at least six months, if kept indoor under suitable and dry conditions. Care should be taken to avoid moist.

Do not store cement bags directly on the ground or on a floor or even with direct contact to an outer wall.

We recommend that cement bags are stacked on a counterfloor 10-20 cm above the regular floor or on pallets. The cavity below the counterfloor should be ventilated to keep the bags dry.

Cement that has been stored for a long time should be examined by e.g. trial

castings prior to use. If the cement contains stony lumps it should not be used, as the strength cannot be guaranteed.

Service

Our AALBORG WHITE® Technical Team is here for you, should you require assistance in respect to mix designs or to the use of our AALBORG WHITE® cement. For further information on our products please visit our homepage www.AalborgWhite.dk

Health and Safety

Contact with cement mixed with water or body fluids (e.g. sweat or eye fluid) or with concrete or mortar should be avoided as it may cause irritation, dermatitis or burns. If such contact occurs, the affected area should be washed without delay with plenty of clean water. In case of eye contact rinse immediately with clean water and seek medical advice.