



AALBORG WHITE®

AALBORG WHITE®

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.

 **aalborgportland**
CEMENTIR HOLDING

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Product

AALBORG WHITE® cement made in Denmark is a rapid hardening portland cement with high (2 days) and (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 $\leq 2 \text{ mg/kg}$.

Product Certificate

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

AALBORG WHITE® cement made in Denmark is certified according to i.a. British Standards, Deutsche Industrie Norm, and has an

EC-certificate according to the European cement standard EN 197-1.

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 150-99a 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 Dansk Beton Certificering under the above-mentioned EC-certificate of conformity of cement to EN 197-1, certificate no. 1035-CPD-70054.

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

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Product data

AALBORG WHITE® made in Denmark	
Type EN 197-1	CEM I 52.5 R
Strength class	52.5 R
Sulphate resistance	C ₃ A ≤ 5%
Alkali content	≤ 0.3%
Fineness EN 196-6	Blaine (m ² /kg) 400

Content of cement clinker mineral [%]			
C ₃ S	C ₂ S	C ₃ A	C ₄ AF
77	16	5	1

Density and setting	
Absolute density (kg/m ³)	3130
Bulk density (kg/m ³)	1100
Initial setting EN 196-3	120 min.

Cement strength				
Cement strength	1 day MPa	2 days MPa	7 days MPa	28 days MPa
EN 196-1	23	42	60	72

AALBORG WHITE®
is available in:
25 kg paper bags
Big bags of approx. 1500 kg
and in bulk by cement
trucks, railway wagons
or vessel.

Mix Designs

Alkali content
AALBORG WHITE® cement
made in Denmark has an
equivalent alkali content
(acid-soluble alkalis) of
≤ 0.3%. 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 ≤ 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 ma-
jor effect on the appearance
of the finished concrete sur-
face. The aggregates should
therefore be selected,
stored and used in an appro-
priate 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 discolor-
ation 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 harden-
ing 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 cast-
ing 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
twelve 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 con-
tact 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 counter-
floor 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 guaran-
teed.

Service

Our technical advisory
department 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.com

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.