Aalborg White:
Looking forward to a more sustainable FUTURE

BIBM Congress Amsterdam
Aalborg White® Worldwide
Plants Capacity

TOTAL
3.26
Million t

- USA: 0.26 mt
- CHINA: 0.85 mt
- 1.1 mt
- 0.7 mt
- 0.35 mt

Plant
Sales Office
Aalborg Portland In White Cement

80+
year’s history as a global leading player in White Cement.

70+
countries worldwide are served under the global AALBORG WHITE® brand from production plants in Denmark, Egypt, Malaysia, China as well as US

3.26 mt
capacity and production facilities strategically located in four continents.

We provide:

• A reliable white cement supply of consistent quality for all cement features
• Value-adding services into the customers’ supply chain
• Extensive technical and customer support
• Potential cooperation in (co)developing new applications using white cement

Cementir Holding:
is the mother company of Aalborg Portland, an international Group with operations in 17 countries, with over 3,000 employees, active in white and grey cement, ready mix concrete, aggregates, concrete products, waste management.
The Aalborg White product family in Europe

- **Portland cement CEM I 52,5R**
  Made in Egypt

- **Sulphate resisting Portland cement CEM I 52,5R – SR5**
  Made in Denmark

- **Portland limestone cement CEM II/B-LL 42,5N**
  Made in Egypt

- **Portland limestone cement CEM II/A-LL 52,5R**
  Made in Denmark

NEW from 2024
New Portland limestone cement – CEM II/A-LL 52,5R

From 2024 a new white cement based on the unique clinker from Aalborg will be launched on the European market.

Aalborg White limestone cement, CEM II/A-LL 52,5R

The aim of this cement is:

- Significant reduction in CO2 footprint
- An excellent general-purpose cement

More than 10% less CO2 compared to CEM I
Cement applications that will benefit from the new limestone cement

<table>
<thead>
<tr>
<th>Semi-dry cast concrete products</th>
<th>Tile adhesive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improved finishes and surfaces</td>
<td>Improved consistency/ workability</td>
</tr>
<tr>
<td>Improved pre-stability and edge solidity</td>
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<tr>
<td>Improved concrete density and strength</td>
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</tbody>
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<tr>
<th>Brick laying mortar</th>
<th>Wet-cast concrete</th>
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</thead>
<tbody>
<tr>
<td>Improved consistency/ workability</td>
<td>Less water bleeding</td>
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<tr>
<td>High early strength without too high late strength</td>
<td>More robust SCC – less segregation</td>
</tr>
</tbody>
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- Less need for plasticising admixture
Thanks to Performances…

- Thinner elements with material saving
- Easy to cast (self-levelling)
- Fast building with lower logistic costs
- Reducing maintenance costs

Thanks to FUTURECEM®

- Leveraging on more sustainable material
- Less CO2 emissions
- Enhanced durability
Sustainable solution for cement, RMC and innovative products. It enables concrete with reduced clinker content (greener) and by exploiting two largely available materials on earth (sustainable).

Ready-to-use, self-compacting RMC products for very high aesthetical, mechanical and durability performance – wet-cast casting method – semi-structural or structural

Ready-to-use, high performance mortar products for very high aesthetical – primary focus is surface detail and finishing – wet-cast casting or sprayed method – semi-structural

https://www.aalborgwhite.com/aalborg-white-world/innovation
**InWhite UHPC: Aalborg Excel / Aalborg Extreme**

**Architectural Application**
- Highly suited for glass-, PVA fibers
- Water Dosage 9,6%-10,4%
- Mixing Time (min.) : 8
- Shrinkage reduced
- Maximum particle size – 1 mm
- Self-compacting, highly flowable

**Main applications:**
- Light weight cladding panels
- Sun-screens
- Ornamental elements
- Urban furniture

**Structural and Semi-Structural**
- Highly suited for metallic fibers
- Water Dosage 7,8%-8,2%
- Mixing Time (min.) : 10
- Shrinkage reduced
- Maximum particle size – 3 mm
- Self-compacting, highly flowable

**Main applications:**
- Bridges
- Balconnies
- Stairs

https://www.white-hub.com
INBIND® - Futurecem Technology

INBIND® is the binder used in all InWhite products.

It's based on FUTURECEM® patented limestone calcined clay technology.

Outstanding fresh and mechanical properties.

Flexible solution, allows customization with local material.

BENEFITS:

- Easy to formulate
- Empowers UHPC product with high durability
- Outstanding color performance
- Reduces total costs on UHPC
Unlimited Possibilities
Application:

- Cladding elements
- 120 Mpa, glass fibre reinforced and addition of black aggregate for blast surface appearance
- Dimensions: up to 3.0 m x 1.4 m, 19 mm thick
France
ZASH Bézannes (Reims)

Architect Rudy Ricciotti
Precaster: Betsinor

Application:

- Cladding elements
- 120 Mpa, glass fibre reinforced and addition of black aggregate for blast surface appearance
- Flexural strength performance, fctk,el = 12.5 Mpa // fctfk = 14.5 Mpa
- Dimensions: up to 3.0 m x 0.25 m, 35 mm thick
France
2021
Road Operations Centre in Antibes

Architect: Architect Heams & Michel
Precaster: Betsinor

Image @Aldo Amoretti
Source: bybeton.fr

UHPC Mesh panels
Application:

- 3 UHPC pedestrian bridges
- Concrete strength 130 MPa
- Synthetic fibre and steel reinforcement
- Dimensions: 3.0 m x 9.3 m.
- Deck thickness 85 mm
Qatar 2022
Qatari miniature buildings in the Doha Modern Playground

Designer: Shezad Dawood

Architect: Delvendahl Martin Architects

Precaster: MDM Props.
Projects Urbastyle

Belgium Sint Joost ten Node
Sint Lazarus Square
2021

Product: Salta Bench (22pc)
Architect: Bas Smets
Precaster: Urbastyle
Dimensions: 200x50x45cm 295kg
Projects Urbastyle
Projects Urbastyle

Belgium Harelbeke
Sluice gate
2018

Product: Salta Bench

Architect: Bas Smets
Precaster: Urbastyle
Dimensions: 200x50x45cm 295kg
Projects Urbastyle

UAE Dubai
Head office Porsche
2021

Product: Line&Line Benches, seats, tables, planters
Architect/Designer: Manon de Smet
Precaster: Urbastyle
Dimensions: maximum 200x90x75cm 280kg
Projects Urbastyle

Denmark
Munkebjerg Business Park Ödense
2021

Product: Line&Line Benches, tables, planters

Architect/Designer: Manon de Smet
Precaster: Urbastyle
Dimensions: maximum 200x90x75cm 280kg
Belgium
Kortrijk EXPO
2018

Product: Skate seat
Architect/Designer: Roel Vandebeek
Precaster: Urbastyle
Dimensions: 40x40x46cm 25kg
Thank You

For further details:
https://www.white-hub.com
https://www aalborgwhite.com/aalborg-white-world/innovation

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