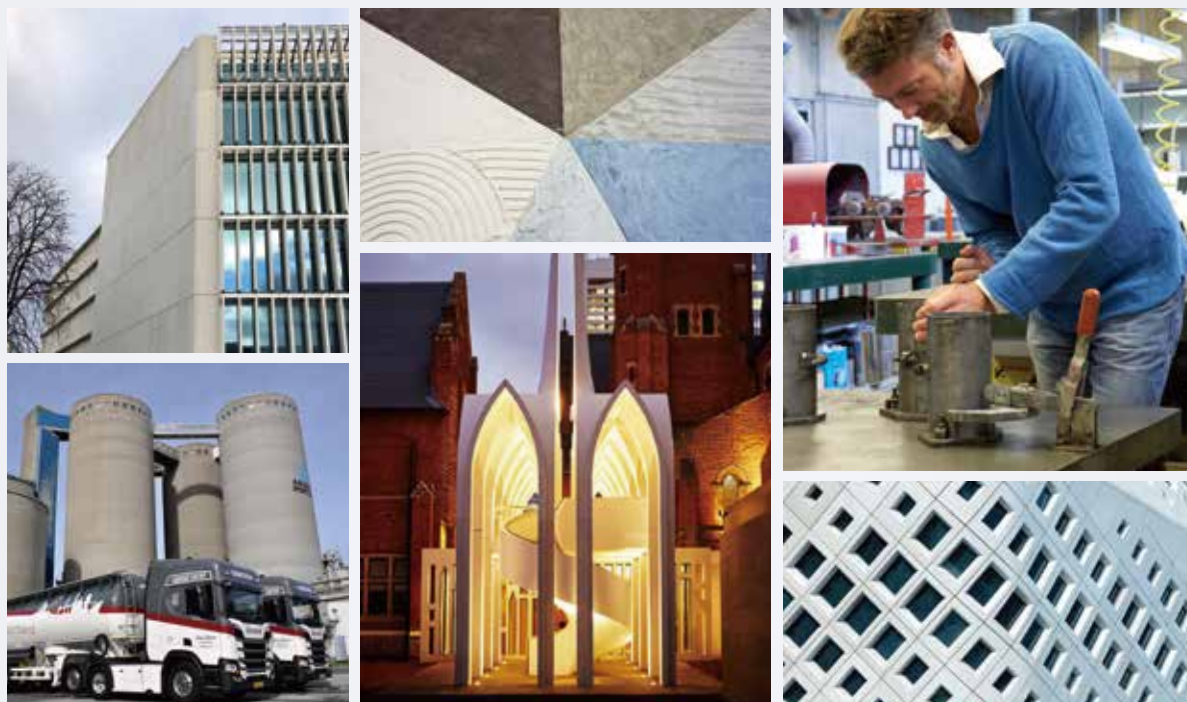




AALBORG WHITE®



Aalborg White® Overview | Asia Pacific

# Unlimited Possibilities of Aalborg White® Cement



# AALBORG PORTLAND IN WHITE CEMENT

Aalborg Portland, with over 125 year's history, is the global leading player in White Cement with 3.3 million MT capacity and production facilities strategically located in four continents.

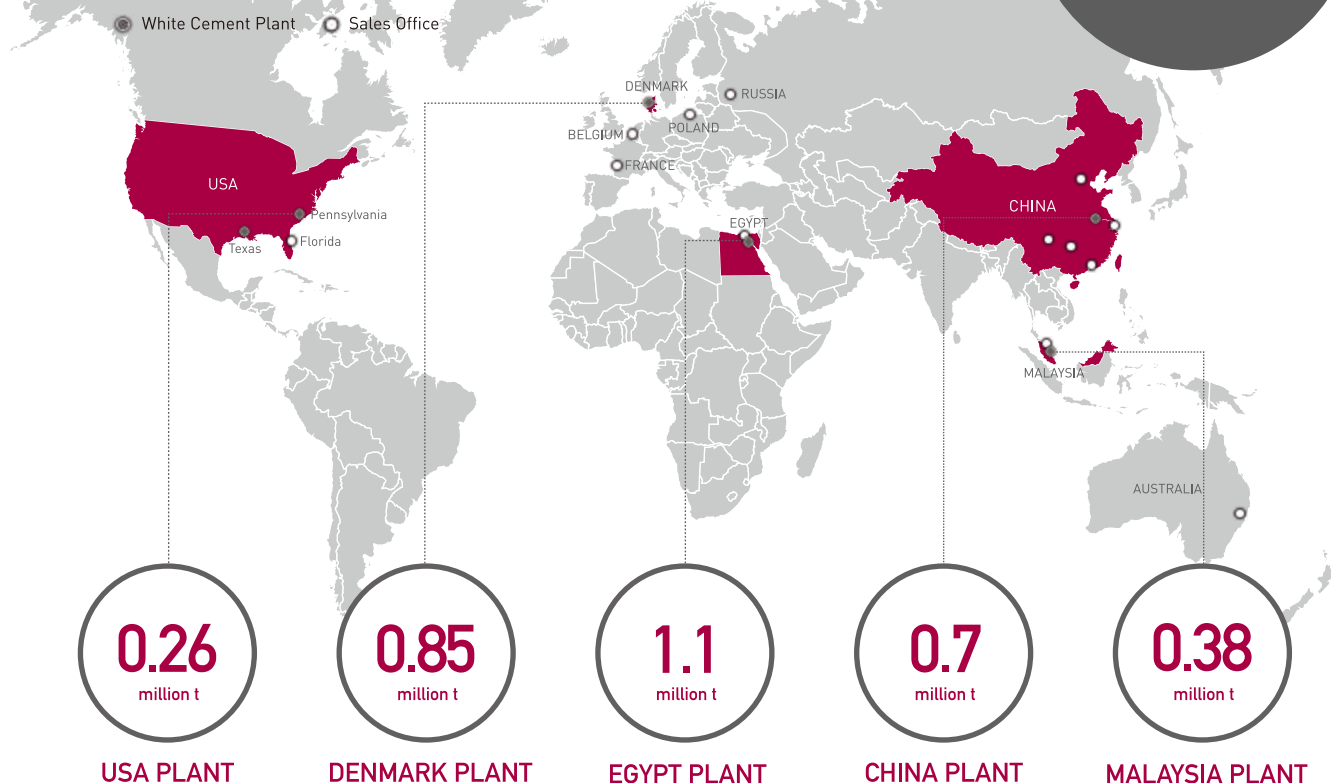
More than 70 countries worldwide are served under the global AALBORG WHITE® brand from production plants in Denmark, Egypt, Malaysia, China as well as US , with a reliable supply of consistent quality for all the cement features.

Aalborg Portland supports its partners by providing a consistent and high performance product, value-adding services into the customers' supply chain, extensive technical and customer support, as well as potential cooperation in (co)developing new applications using White Cement.

Aalborg Portland is owned by the Italian Cementir Holding, an international Group with operations in 18 countries, with over 3,000 employees, active in white and grey cement, ready mix concrete, aggregates, concrete products and waste management.

# AALBORG WHITE® PLANTS CAPACITY

TOTAL  
**3.29**  
million t



## AALBORG WHITE® PRODUCTS

### • AALBORG WHITE® cement CEM I 52.5N

Produced in Ipoh,  
Malaysia  
Sold in Asia Pacific  
countries as bigbags,  
40kg and 20kg bags



### • AALBORG WHITE® cement P.W.52.5

Produced in Anqing,  
China  
Sold in Mainland  
China as sling bag,  
jumbo bag, 50kg bags



### • AALBORG WHITE® cement P.W.42.5

Produced in Anqing,  
China  
Sold in Mainland  
China as sling bag,  
jumbo bag, 50kg bags



## AALBORG WHITE® Product Overview

		Physical Properties						Product Features			
The cement conforms to national / regional standards in the market served		Strength (MPa)		Initial Setting time	Whiteness	Fineness	High Whiteness	High Strength (28days)	High Early Strength	High Consistency in Quality	
		2 Days	3 Days	28 Days	Mins	Hunter W	m <sup>2</sup> /kg				
AALBORG WHITE® Product - Product Data Sheet Source: Cementir White Cement Plants											
AALBORG WHITE® cement CEM I 52.5 N	Made in Malaysia	32		64	165	90.5	370	•	•	•	•
AALBORG WHITE® cement P.W.52.5	Made in China		41	62	130	89.5	400	•	•	•	•
AALBORG WHITE® cement P.W.42.5	Made in China		30	47	140	90	430	•			•



# Unlimited Possibilities of WHITE CEMENT

## Aesthetics and Functionality

Unique raw materials and advanced production technology developed over 130 years make up the AALBORG WHITE® as the global leading White Cement brand over for its supreme quality.

High whiteness, high strength and high consistency in quality of AALBORG WHITE® makes it a broad range of applications in the fields of Commercial & Residential Building, Landscaping, Infrastructure, Energy & Waste and Industry & Agriculture.

AALBORG WHITE® has already been an essential building material for architects, engineers, general contractors and manufactures to achieve architectural functionality and aesthetics.



## Pre-stressed and Ordinary Reinforced Precast

By building with structural concrete elements, there is no limit of creating an attractive airy indoor environment with columns and beams of white or coloured concrete based on AALBORG WHITE®.

The immediate impression is one of elegance and lightness in construction, which takes full advantage of the AALBORG WHITE® high reflective index.



## Precast Products

Prefabricated construction is an area in which white elements can play a successful role. AALBORG WHITE® also makes a large contribution in reaching a clear and pure nuance for all the colours designed.



## Artificial Stones

Artificial Stone is mainly used in landscaping and building exterior & interior wall. AALBORG WHITE® makes artificial stones have real stones' textures and colours, creating a natural and vibrant space and environment.



## GRC (Glass Fiber Reinforced Concrete)

GRC is used for very thin, bending and light panels. A common application in the old building facade renovation or in a completely new design. GRC produced with AALBORG WHITE® has optimum strength and toughness thanks to the compact matrix created by high cement performances.



## UHPC (Ultra High-performances Concrete)

UHPC is the emerging concrete technology for slim aesthetic and structural concrete elements with high mechanical, chromatic and durability performance. Peculiar and consistent quality of AALBORG WHITE® make it all possible.



## Dry Mix Mortars

Mortars are used in a wide range of applications. When aesthetic appeal is a priority, AALBORG WHITE® is often included in the formulation.

AALBORG WHITE® with its high reflective index, in addition to high strength and consistent chemical composition, makes it the preferred cement for many mortar products like colour mortar, tile adhesives and grout, skim coat, self-levelling floor screed, swimming pool plasters, etc.



## In-situ Cast Concrete

The greatest freedom in shaping concrete usually exists for constructions where concrete is poured and cast on site. Only your imagination and operation' feasibility can limit the possibilities. When mixed properly, concrete based on AALBORG WHITE® cement achieves very high strength and durability thanks to high cement overall performances.



## CUSTOMER ORIENTATION

*We have been dedicated to offer diversified and flexible customers services encompass Logistics, Warehousing & Technical supports as a practice of Cementir's customer-oriented strategy.*

- Lean supply chain and logistics management to offer customers the flexible and efficient logistics solutions with extensive GLOCAL experience and knowledge.
- Strategic location of Ipoh Malaysia plant facilitates the products transportation to nearby bulk cargo terminal and port container terminal where has accessibility to over 120 countries. Anqing China plant is located in the famous port city with easy access to highway, waterway and railway.
- We offer bagged, sling bag, jumbo bag and bulk cement by vessel, container and truck transportation.



Warehouse in Ipoh, Malaysia Plant



Anqing Port along the Yangtze River

## OUTSTANDING PRODUCTION FACILITIES

- State of the art White Cement plant.
- High grade and abundant raw materials from own quarry for the production of pure AALBORG WHITE cement.
- Certified production environmental standards adhere to sustainable development.

White Cement plant in Ipoh, Malaysia



White Cement plant in Anqing of Anhui, China



## STRICT QUALITY MANAGEMENT SYSTEMS

Comprehensive and well proven quality control systems certified to ISO 9001 in both the Malaysia and China plants.





# THINK GLOBAL ACT LOCAL

As a global leading player in White Cement with production facilities and commercial subsidiary strategically located in four continents, we support our local partners by providing high performance product, value-adding services, extensive technical support, and potential cooperation in (co)developing new applications using Aalborg White® cement.

## Global Expertise & Innovation

**Aalborg InWhite Solution™** is the global Innovation Engine for White Cement Application established with the purpose of generating the most sustainable, cost-effective solutions in construction and building material. Aalborg Extreme™ Light120 is our first commercialized Premixed Ultra High-Performance Concrete product under the Aalborg InWhite Solution™.

**White Cement Competence Center (WCCC)** serves as knowledge and emerging technology center for the global activities and customer supports by developing new White Cement applications. Annual WCCC workshop gathers all **"White Marketers"** in all Regions for sharing best practices and in-house training in applications, technology and innovation.



## Local Practice

Cementir has global presence in White Cement, but we listen to the "Voice of Customer" in local markets, understand in-depth of local market needs and have a close relationships with local partners.

**Our innovation team**, together with our global experts and scientists of R&D Center in Aalborg, Denmark offer product technical supports and market-specific product and application trainings to local customers and stakeholders in all Regions.

# Building A SUSTAINABLE FUTURE

Cementir regards sustainable growth as both a responsibility and a requirement for continuing to work in the cement industry. Our business model must strike the right balance between the creation of economic value, the protection and conservation of the environment and a sense of responsibility towards people and communities.

Group has identified 4 pillars that represent the benchmark principles that have inspired the company's defined sustainability strategy.

## Alternative Fuel in the Cement Production



**16.8%** alternative fuel used for thermal energy production in place of non-renewable fossil fuels.



## Sustainable and Safety Plant



Cementir Anqing plant is compliance with EHS laws and regulations in China. Plant's pollution emissions are strictly controlled to be far below the national emission standard. Shaping the cleanest and safest cement plant is regarded as one of the company missions. Responding to the Government's call for sustainable society, Anqing plant's green quarry project is undergoing.

## Green Cement Innovation



**FutureCem™** developed by Cementir's R&D center in Aalborg, Denmark cuts up to **18%** CO<sub>2</sub> emission during the cement production.

It is also a **sustainable binder** technology further developed by Cementir Innovation team together with R&D center for UHPC (Ultra High-Performance Concrete) application.

## Footprint in Social Responsibility



Cementir's Anqing plant is commitment to community care and social responsibility. Anqing plant sponsored its nearby beautiful village construction project, actively joined in "honor the aged" social activities and sponsored the low income students for more than 10 years.



► Financial aid to low income students

## Cementir Four Pillars on Sustainability

### PILLAR 1

We ensure that waste and secondary products are turned into resources, adopting an increasingly integrated approach to cement production and establishing partnerships with other industry players and public authorities.

### PILLAR 2

We adopt all necessary measures and the most innovative technological solutions to minimise the impact of our business on the environment.

### PILLAR 3

We attract talent and we ensure a safe and stimulating working environment for our people, our most valuable resource.

### PILLAR 4

We create value for local communities, listening to their needs and concerns and basing our relationships with them on transparency and accountability.

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