

PRODUCT INFORMATION SHEET

AALBORG INBIND®

Binder for High-performance Concrete/Mortar applications

AALBORG INBIND® is a white cementitious binder to be used in mortar and concrete recipes for high performance and highly aesthetical applications. AALBORG INBIND® is based on Cementir Holding's binder technology, FUTURECEM®, which offers highly advantageous limestone calcined clay synergy, without being constrained by the availability and quality of by-products from other industries.

Applications

All around binder suitable for wet-cast applications when high compressive strengths, durability and aesthetics are required. Further uses can be explored on demand.

Recommendations for its use:

Adjust the recipe

Since the INBIND® binder is meant to be used as part of a mortar or concrete recipe, it is always mandatory to carry out a test program to adjust the full recipe, including superplasticizer, aggregates, pigments (when needed) and fibers (when needed).

The test program must include fresh (i.e. flow retention, setting time) and hardened properties (i.e. compressive and flexural strength, shrinkage), of the intended recipe, as well as colour assessment in the case of pigment addition.

Trial Casting

It is, always recommended to carry out a trial casting replicating the intended use of the product, (i.e. representative moulding, release agents, casting procedure, ...) before production is initiated,

to evaluate the achieved surface properties of the finished concrete product.

The trial casting should hence reveal, if vibration must be applied to the mould to reach the targeted surface detailing and finishing.

Auto-control

The user of INBIND® binder must implement a quality control testing for monitoring the quality of the mixed mortar or concrete, according to the targeted application.

Curing

It is recommended to protect the mortar or concrete from evaporation (i.e. plastic sheet) immediately after casting. In case the free surface needs to be finished after casting, it is also advisable to protect the placed concrete from evaporation in between concrete placement and finishing operations.

Technical Properties of the Product

| Typical Properties and Test Methods | | |
|--|--------------------|---------------|
| | Units | Typical value |
| Physical properties | | |
| • Compressive strength, EN 196-1, 40x40x160mm | | |
| | 1 day | 24 |
| | 2 days | 39 |
| | 7 days | 61 |
| | 28 days | 72 |
| • Initial setting time, EN 196-3 | min | 175 |
| • Standard consistency, EN 196-3 | % | 34 |
| • Soundness, EN 196-3 | mm | 1 |
| • Fineness, EN 196-6 | m ² /kg | 630 |
| • Absolute density, EN 196-6, GP | kg/m ³ | 3050 |
| • Early stiffening, final penetration, ASTM C 451 | % | 55 |
| • Hunter L | - | 92,5 |
| • Hunter a | - | -1,5 |
| • Hunter b | - | 5 |
| Chemical properties | | |
| • SO ₃ , EN 196-2 | % | 2,6 |
| • Cl, EN 196-2 | % | 0,01 |
| • Alkalies, Na ₂ O eqv. total, EN 196-2 | % | 0,24 |
| • Water soluble Chromium, EN 196-10 | mg/kg | 0,0 |

Storage of the product:

INBIND® pre-mix in 18 kg bags, stowed on pallets can be stored up to 6 months in total from production date without the dry-mix quality being affected (provided the plastic foil and the bags unbroken).

After the pallets are unwrapped and the plastic foil is broken INBIND® in 18 kg bags can be stored up to 3 months without the dry-mix quality being affected.

Max total shelf life for INBIND® in 18 kg bags:

6 months + 3 months = 9 months

INBIND® pre-mix in big bags, can be stored up to 12 months in total from production date without the dry-mix quality being affected.

Packaging:

INBIND® is available in 18 kg bags and big bags.

Health & Safety:

UFI: 841T-11DU-GR0E-MD5J

INBIND® is a cement-based material, thus, no extra precautions other than the ones related to handling Portland cement must be considered.

AALBORG WHITE® is the cement used in INBIND® binder. This cement is neutral in terms of meeting

the EU requirements for a maximum soluble chromium (VI) in cement of 2 mg/kg with no time limits on storage time.



Contains: Portland cement. Danger.
H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H335 – May cause respiratory irritation.
P102 – Keep out of reach of children.
P260 – Do not breathe dust.
P280 – Wear protective gloves, eyes and face protection.
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call POISON CENTER or doctor/physician.
P501 – Dispose of contents/container in accordance with local regulations.
Contains: Calcium oxide. When mixed with water it will form calcium hydroxide which has a corrosive effect on skin and eyes.

Quality Control Assessment:

INBIND® is produced under the strict quality control procedures defined and audited by Cementir Group in order to guarantee the highest quality standards.

Furthermore, samples are cross-checked and fully tested at Cementir Holdings Research and Quality Centre in Denmark.

Disclaimer:

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Sustainability:

In our effort to limit the use of scarce materials, INBIND® binder is manufactured with raw materials from sources vastly available in nature. Therefore, it is not constrained by the availability and quality of by-products from other industries.

Global Contacts:

For technical matters related to the product, please address your request to:

inwhitesolution@cementirholding.it

For commercial inquiries, please find your nearest sales office of AALBORG WHITE®, at

www.aalborgwhite.com