35035 - Concrete 35 Mpa

PRODUCT DESCRIPTION

MAIN USE

35 MPa pre-mixed concrete is a construction concrete based on GUL type portland cement and optimized aggregates. The nominal diameter of the aggregates is 10 mm. For indoor and outdoor use, it is of superior quality, ideal for all types of work requiring a layer of concrete more than 5 cm (2 in) thick such as slabs, patios, sidewalk, fences, foundation walls, garage floor, retaining slabs etc.

ADVANTAGES

The use of a 35 MPa pre-mixed concrete offers increased durability.

APPLICATION

CONDITIONS OF USE

Ensure that the ambient temperature of surfaces and product is between 5 °C (40 °F) and 35 °C (95 °F), during application and for a period of 48 hours following the application. Saturate the surface to be coated with potable water for 12 to 24 hours before applying the product. Remove excess water before application. Solidify the form to prevent movement and caulk it to prevent moisture loss. If necessary, build a form to support the concrete.

SURFACE PREPARATION

Surfaces to be coated must be structurally sound, clean and free of any material that may impair adhesion such as grease, dust, oil, paint or any other harmful substance. Smooth surfaces should be mechanically scarified.

MIX

SMALL QUANTITY MIX (1 BAG minimum)

Pour 3.0 liters of potable water per 30 kg (66 lb) bag into a clean container (Ex. 20.0 liter boiler). Gradually add the dry ingredients while mixing at low speed using an industrial-grade drill fitted with a Jiffler-type mixer. Mix for 3 to 4 minutes. Water demand is a function of many factors, if necessary add water a little at a time while meeting the sag specification. Avoid over-lightening.

Note: Never mix less than one bag and always mix full bags.

BIG QUANTITY MIX

Use a concrete mixer of adequate capacity (the mixer should be filled no more than 3/4 full). Start the mixer. Pour the required quantity of drinking water, Ex. 3.0 liters of water per 30 kg (66 lb) of dry material or 110 liters of water per 1100 kg (2425 lb) of dry material or 220 liters of water per 2200 kg (4850 lb) of dry material. Gradually add dry material. Mix for 3 to 4 minutes. The water demand is a function of several factors, if necessary, add a little water at a time and validate the sag.

APPLICATION

Mix the concrete in a sufficient quantity to have a regular and continuous flow during installation. Pour the mixture and pack well with a stick. Level using a squeegee or a board with a back and forth motion.

Note: Concrete must be applied within 1-1/2 hours after mixing, when the ambient temperature is equal to or greater than 25 °C (77 °F) and, within 2-1/2 hours, if the temperature is below 25 °C (77 °F). Concrete not used after this period of time should be discarded.

FINISHING

Wait for the product to have an initial set (approximately hours at 23 °C, 73 °F) before finishing. If the finish is done too soon, the water in the mix rises to the surface and tends to evaporate too quickly, leaving a crumbly surface with a lot of efflorescence (whitish deposits). This situation is also encountered when the surface is too flattened. To obtain a rough effect, finish with a broom or a wooden trowel. For a smooth finish, use a steel finishing trowel. For a textured finish, use a steel trowel followed by a brush or broom.

PROTECTION AND CURING

Curing is essential to optimize physical properties concrete and reducing plastic shrinkage.

The concrete must be protected from moisture loss until the final finishing stage. Curing of exposed concrete surfaces must begin immediately after finishing operations. Ideally, keep the surface wet for 3 days following the end of the work. Use a curing agent or lightly watered burlap to retain moisture. All curing products used must comply with current standards. Protect completed works with tarpaulins. Temperature is an important factor in achieving adequate cure. Temperatures greater than or equal to 10 °C must be maintained. When the ambient temperature is below 5 °C, insulating blankets or other insulating materials may be sufficient to protect the concrete. Extend the water curing period or keep the forms in place longer when concreting in cold weather.

CLEANING

Clean equipment with water before the mix has hardened. Once the mixture has hardened, only mechanical cleaning will be effective. Throughout the work, carefully remove concrete splashes and stains using jute and/or a wooden pallet. Avoid using high pressure cleaning or abrasive techniques, such as sandblasting, glass beads or others.

PACKAGING

This product is packaged in a 30 kg (66 lb) paper bag and a 1100 kg (2425 lb) superbag. A 30 kg (66 lb) bag pallet contains 63 bags and a superbag pallet contains 2 superbags.

- Bag of 30 kg (66 lb) gives approximately 0.014 m^3 (0.5 ft^3).
- Superbag of 1100 kg (2425 lb) gives approximately 0.5 m^3 (17.7 ft^3).
- Superbag of 2200 kg (4850 lb) gives approximately 1.0 m^3 (35.4 ft^3).

STORAGE

INDOOR STORAGE

Store in a cool, dry place. Avoid placing the bags directly on the floor.

OUTDOOR STORAGE

Cover bags with waterproof wrap. Do not store directly on the ground.

LIFETIME

Storage time is 12 months in unopened, well-protected bags.

FIRST AID

WEAR IMPERVIOUS GLOVES, such as nitrile,

eye protection, protective clothing and rubber boots. Do not breathe dust or swallow it. Wear a NIOSH-approved respirator (mask) such as N95 in poorly ventilated areas, during prolonged or repeated use, or when maximum exposure limits may be exceeded. Do not eat, drink or smoke when this product is in use. Before handling, read and understand the safety information on this label and on the safety data sheet (SDS) available online at www.daubois.com.

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IF EXPOSED :
Wash exposed body part and contaminated clothing thoroughly and immediately. In case of eye contact: Rinse cautiously with water for several minutes; remove contact lenses if possible; continue rinsing. In case of inhalation: move the person to fresh air and make him comfortable so that he can breathe. If swallowed: rinse your mouth; do NOT induce vomiting. In case of burns, irritation or rash: consult a doctor immediately.

TECHNICAL SERVICE

Contact Les Produits Daubois Inc. for further information on the methods or conditions of application as well as to obtain the most recent version of the technical documents.
Tel: 1 (800) 561-2664, (514) 328-1253
Fax: (514) 328-7694
Les Produits Daubois Inc.
6155, Des Grandes-Prairies Blvd, Saint-Léonard, Qc, Canada H1P 1A5
http://www.daubois.com

GUARANTEE

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TECHNICAL DATA TABLE

Characteristics	Time	Results
Compressive Strength, ASTM C-39	7 Days 28 Days	30 MPa (4351 Psi) 35 MPa (5075 Psi)
Slump, ASTM C-143	—	80 ± 30 mm (3 ± 1 po)
Volumic mass, ASTM C-138	—	2200 Kg/m^3 (137 lb/pi^3)
Setting time, ASTM C-191	Initial Final	± 3 hours 30 min ± 6 hours 30 min

Note : The results were obtained in the laboratory under controlled conditions (23°C, 50% R.H.) for a standard sample mixed with the quantity of water prescribed. These results may vary slightly from sample to sample and are indicative of concrete performance. They cannot be used for product acceptance or rejection.

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