1-Product description

1.1 USE

- This industrial grade concrete is especially formulated to achieve compressive strengths of 8000 psi (55 MPa) at 28 days which is more than twice the strength of regular concrete.

- Its very high density produces a concrete with superior resistance to freeze/thaw cycles and the effect of de-icing chemicals.

- Suitable for indoor and outdoor use, it is recommended for all work requiring a minimum of 5 cm (2 in) in thickness such as floors supporting heavy loads or sidewalks/steps frequently exposed to de-icing chemicals.

2- Installation

2.1 SURFACE PREPARATION

- Surface to be repaired must be sound, clean and free from bond inhibiting materials such as dust, oil or paint.

- Make sure the temperature is between 5°C (40°F) and 35°C (95°F), during the application and for the following 48 hours.

- Smooth surfaces must be mechanically scarified.

- Keep the surface damp, 12 to 24 hours before you apply the concrete. Remove all excess water before the application.

- Build a form to hold the concrete mix, if necessary.

- Solidify the form to avoid any movement and seal it to avoid humidity loss.

- Humidify the form before the application.

2.2 RECOMMENDATIONS

- It is strongly recommended to use All-crete concrete adhesive as a primer coat to increase adhesion between the old and the new concrete surfaces.

- All-crete can also replace water in the mix to significantly improve its malleability. It will also increase its adhesion, flexibility and durability.

2.3 MIXING

- Pour the content of the bag into a mortar trough, a wheelbarrow or on a clean, smooth surface. Dig a well at the centre to incorporate water.

- Add 3 litres (0.7 gallon) of clean water per 30 kg (66 lb) bag.

- Mix thoroughly using a shovel or hoe, until a homogeneous consistency is obtained.

- If mixture is too thick, gradually add water avoiding excess.

- When a concrete mixer is used, start the mixer, add water and then slowly incorporate the dry ingredients. Mix until a homogeneous consistency is obtained.

2.4 APPLICATION

- Mix enough concrete to have a continuous and regular flow during the application.

- Do not use the concrete if it has been mixed for more than 1h30 hour. Do not add water to improve its workability.

- Pour the mixture into cracks and other cavities, packing it in tightly with a rod or stick.

- Level with scraper in a back and forth motion taking both sides of the form as support, when possible.

2.5 FINISHING

- Wait after the concrete’s initial set, before proceeding with the finishing (approximately 2 hours at 23 °C, 73 °F). Early finishing will bring some mixing water to the surface. This water will evaporate faster and it will result in a weak surface with a lot of efflorescence (white deposits). This problem can also be caused when the material is trowelled over a very long period.

- To obtain a rough finish, use a broom or a wood trowel. For a smooth finish, use a finishing metal trowel.

2.6 PROTECTION AND CURING

- Wait 24 hours before removing the molding frames.

- Keep the concrete moist for at least 3 days, covering with dampened jute and plastic sheeting.

2.7 CLEANING

- Clean tools and containers with water while mixture is not yet hardened. Once it is hard, only a mechanical cleaning will be efficient.

3. Packaging

- This product is available in 30 kg (66 lb) bag.
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### 4. Storage
- Store in a cool, dry place. Avoid placing bag directly on the floor.
- Shelf life is one year in unopened bags.
- Discard product that has been damaged by water or humidity or that contains hard lumps.

### 5. First aid
This product contains portland cement and may cause eye, skin and respiratory system irritation. Wear rubber gloves, safety glasses and approved dust mask. If swallowed, call a Poison Control centre or doctor immediately. Do not induce vomiting. In case of contact with eyes, rinse well with water for 15 minutes. In case of skin contact, rinse well with water. Keep out of reach of children. Consult the safety data sheet for more information.

### 6. Technical services
Contact Daubois for more information about application methods or conditions or to obtain the latest version of our technical documents.

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### 7. Warranty
Daubois guarantees that this product will perform as specified in this technical data sheet and suits the application for which it was intended. Nonetheless, Daubois does not offer any explicit or implicit warranty. Under this warranty, Daubois’ responsibility is limited to either replace or refund the cost of the product proved defective.

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**Technical data table**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial set time (hours) ASTM C-191</td>
<td>2</td>
</tr>
<tr>
<td>Compressive strength ASTM C-109</td>
<td>1 day 31 MPa (4500 psi)</td>
</tr>
<tr>
<td></td>
<td>7 days 48 MPa (7000 psi)</td>
</tr>
<tr>
<td></td>
<td>28 days 55 MPa (8000 psi)</td>
</tr>
<tr>
<td>Specific weight kg/L (lb/ft³) ASTM C-185</td>
<td>2.35 (145)</td>
</tr>
<tr>
<td>Covering of a 30 kg (66 lb) bag</td>
<td>0.014 m³ (0.50 pi³)</td>
</tr>
</tbody>
</table>

*Note: These results were obtained in a laboratory at 23 °C (72°F)*