

# PaveCrete 200

## Premium Dry Shake Color Hardener



**DESCRIPTION** • *PaveCrete 200* is a ready-to-use, colored floor hardener designed for application by the dry shake method over freshly poured concrete surfaces. Formulated with graded Silica aggregates, admixtures, and the finest UV resistant pigments, *PaveCrete 200* is specifically formulated to work with texturing mats for stamped concrete applications, or to be troweled into freshly poured concrete to produce hard-wearing and abrasion-resistant surface.

**USES** • *PaveCrete 200* may be troweled into freshly placed concrete to produce smooth and colored surfaces that are resistant to weathering and normal abrasion. When used with *PaveCrete 300 Antique Release Agent*, or *PaveCrete 400 Release Agent* and texturing mats, a rich appearance simulating natural stone, brick, and tile is produced. *A-Z Acid Stain* may also be applied to the color-hardened surface after 14 days of curing to produce a richly colored and antiqued surface.

### ADVANTAGES

- ✓ Increased wear and abrasion resistance to conventional standard concrete.
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- ✓ Provides a high density surface that is oil and grease resistant, dust reducing and easy to clean and maintain.
- ✓ Exterior and Interior application.
- ✓ Ready and easy to use.
- ✓ Available in 40 standard colors.

**PHYSICAL PROPERTIES** • Physical properties of aggregates:

Aggregate hardness on the Mohr scale	7
Size of aggregates	0.3-1 mm
Shape of aggregates	Round
Abrasion resistance (DIN EN 12808-2) <i>PaveCrete 200/101</i> Regular Concrete	250 mm <sup>3</sup> 854 mm <sup>3</sup>
Minimum Abrasion Δ over Regular Concrete	330%
Scratch Resistance, Erichsen Pen	30 N
Density	1,700 kg/m <sup>3</sup>

**CONCRETE MIX** • The base concrete should contain a minimum of 300 kg of cement per cubic meter. All aggregates must be clean and free of particles that may deteriorate; the water cement ratio should be less than 0.55; and the slump should

not exceed 10 cm. The base concrete should be poured and compacted in accordance with good concrete practice. Avoid the addition of calcium chloride or any admixtures containing calcium chloride. Do not use water-reducing admixtures (super plasticizer). Additionally, all aggregates in the concrete mix must be non-reactive and free of deleterious materials.

**COVERAGE** • *PaveCrete 200* should be applied at a minimum rate of 3.5 kg/m<sup>2</sup>.

**APPLICATION** • It is essential that application over the entire surface is completed while sufficient moisture in the concrete is present to assure proper infusion of the powder into the surface. Therefore, it is highly recommended that required labor, materials and machinery are prepared and made available well in advance of initiating the application. Conversely, application of the powder too early when excessive amounts of moisture are present will lead to poor results.

When working under conditions of high winds, wind breaks or barriers should be constructed around the work area. The concrete should first be spread, screeded, and vibrated so that it completely fills all the space inside the form. Before the appearance of excess moisture, the surface should be floated using wood or magnesium floats to the desired level and flatness. **DO NOT TROWEL THE SURFACE PRIOR TO APPLICATION OF *PaveCrete 200***; troweling closes the surface, making it difficult to work the hardener into the surface. Application of *PaveCrete 200* must begin only after excess and bleed moisture have disappeared from the surface and the floating process would not disrupt the level of the surface, but while the concrete is still plastic throughout. **DO NOT** attempt to absorb bleed water by applying the hardener at an early stage. **Water must not be sprinkled** or otherwise added to the surface during application or finishing. The necessary moisture for the hardener must come from the concrete in order to develop a proper bond and assure adequate density of the surface.

It is recommended to divide and mark the floor into sections of known areas in order to set aside the proper amount of material to be applied to each section. *PaveCrete 200* should be applied over two shakes; two thirds of the material in the first application and one third in the second. For application rates higher than 5 kg/m<sup>2</sup>, *PaveCrete 200* should be applied over three shakes, with one half of the material applied during the first shake.

Apply the material by broadcasting over the surface at less than knee height. Do not throw material a distance more than 1 meter. The edges of the slab

should be worked first since they set quicker. After each shake, the surface must be thoroughly floated in order to work the material into the surface. The surface must **NOT** be troweled between the first and final shakes. Never sprinkle or add water to the surface. After the application of the final shake, the surface should be floated and then troweled once it has hardened sufficiently. Hard troweling should be minimized and consistent finishing used to ensure uniformity of the surface. Do not over-trowel in order to minimize trowel-burn and discoloration.

**Mechanical Floating/Troweling:** In case of the use of a power float/trowel, application of the hardener by the dry shake method may be carried out in a single pass once surface moisture has completely disappeared. After the surface has hardened enough to take the weight of the machine and operator, the surface may be power floated. The surface is then left to harden further before it is power troweled. Power troweling is carried out in several stages, increasing the pitch angle of the blades with each stage until the desired surface smoothness and finish are achieved. Manual troweling and floating are not necessary except in tight areas and edges where the machine might not cover the surface thoroughly.

**Application on Vertical Surfaces:** *PaveCrete 200* may be applied by plastering method over vertical surfaces such as curbs, risers, and planters in order to match the color and finish of surrounding decorative concrete floors. Once the concrete is self-supporting but is still retaining moisture, remove the form work and mix the dry *PaveCrete 200* powder with water to a plaster consistency. Immediately trowel on the paste mix on the vertical wet concrete surfaces at the minimum rate of 4.0 kg/sq meter, then texture or trowel to the desired finish once the consistent appearance is obtained. Cure and seal as with flooring surfaces.

**CURING** • Curing should be carried out immediately after completion of troweling either by conventional methods or by the application of curing agents. Avoid the use of any materials that contain sodium-silicate or the use of plastic sheeting or misting techniques.

**SEALING** • For enhanced protection of the concrete surface, it is recommended that the surface be sealed with *A-Z Super Sealer*. Refer to CCC technical data sheet *A-Z Super Sealer* for application instructions.

**CLEANING** • Clean all tools and equipment promptly with clean water.

**STORAGE** • Keep material covered to prevent exposure to moisture. Store in a dry area.

**SAFETY PRECAUTIONS** • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Portland cement and silica based products present health hazards. Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. May cause delayed lung injury (silicosis). Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

**PACKAGING** • 35 kg paper bags.