TopCrete 700
Exposed Aggregate Topping

DESCRIPTION • TopCrete 700 is a colored cementitious topping containing decorative aggregates such as crushed marble, glass, or silica aggregates. TopCrete 700 is plastered or overlaid on cementitious substrates and the aggregates are then exposed by sandblasting or washing to produce a durable and decorative surface flecked with colored aggregates.

USES • TopCrete 700 is ideal as a hard-wearing, abrasion-resistant topping for hardscapes and interior floors. With an unlimited choice of aggregates and colors, TopCrete 700 is an economical, decorative flooring solution with the structural integrity of concrete and the look of cast-in-situ exposed aggregate concrete. It is ideal for walkways, plazas, parks, driveways, and swimming pools. TopCrete 700 may also be plastered on vertical surfaces to produce a low-maintenance and decorative façade. TopCrete 700 is typically used with aggregates up to 5 mm in size and applied in a minimum thickness of 5 mm and up to 20 mm.

ADVANTAGES •
✓ Very high durability surface with high abrasion resistance properties.
✓ Eliminates the need to remove existing pavements.
✓ Easy to apply.
✓ Maintenance free.
✓ An unlimited choice of colors and aggregates.
✓ Many options for finishing and texture roughness.

COVERAGE • Coverage will vary depending on substrate surface profile, required depth of installation, surface finish and preparation method. Dominant coverage rate is approximately 1.8 square meters per 35 kg bag at 10 mm thicknesses.

LIMITATIONS • TopCrete 700 must be applied over structurally sound and non-moving substrate. Do not apply in areas subject to negative hydrostatic pressure. When applying in swimming pools, the structure of the swimming pool must be properly waterproofed. All joints in the existing substrate must be extended through the full depth of the TopCrete 700 topping by saw cutting, allowing for the simultaneous expansion and contraction of the substrate and the TopCrete 700 topping. Moving cracks or joints in the existing substrate will reflect through TopCrete 700 overlay. Existing concrete surfaces must be cured properly prior to application of TopCrete 700. TopCrete 700 must not be applied in thicknesses less than 5 mm. A coat of BondCrete must first be applied to the surface prior to application of TopCrete 700. As with all flooring applications, sealing the surface with A-Z Super Sealer, A-Z Ultra Sealer or A-Z Mega Sealer once the surface has cured for a minimum of 48 hours is highly recommended. Do not apply if ambient temperature is expected to drop below 7°C during installation or in the proceeding 48 hours, or if rain is expected in the proceeding 24 hour period after application. Do not mix or apply when ambient temperature is expected to exceed 40°C.

SURFACE PREPARATION • All bases must be fully cured, sufficiently rigid, and clean of any surface contamination such as oil, dirt, grease, coatings, curing compounds, and laitance that may prevent proper adhesion. Dense, smooth surfaces, and those retaining excessive amount of form release agent can cause delamination from the base. Any painted or coated surfaces should be sandblasted and/or pressure washed to remove existing coatings. Use of detergents or soap is not recommended as they may leave a film that can cause bonding failure. Surrounding areas should be covered and protected from material spills and equipment contact. Rope off work area, remove surrounding vehicles, and close off to traffic.

All cracks larger than hairline shall be considered as moving and must be repaired with PatchCrete 102 Crack Filler. All delaminated and spalled areas of concrete shall be repaired prior to application with PatchCrete 101 Multi-Use Repair Mortar. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces. Under extreme weather conditions, and on highly porous absorptive surface, the substrate should be primed with A-Z PrimeBond.

Under all conditions, a coat of BondCrete must first be applied to the substrate in order to unify the surface absorption. TopCrete 700 is then applied on top of a second BondCrete coat while still tacky and before it dries. Never apply the topping on a dry layer of BondCrete; application on a dried layer may lead to delamination of the overlay. Please refer to the relevant CCC technical data sheets for installation instructions.

MIXING • Mixing should be done with a drill mounted jiffy-type mixer at low speeds. Always add clean potable water first. Mixing duration should last for at least four minutes to insure proper color and material dispersion within mix; never re-tamper. Approximate mixing ratio is 6 liters of water per 35 kg bag.
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APPLICATION • Application temperatures should be between 5°C and 40°C. It is highly recommended to test a small area to ensure bonding ability and satisfaction of appearance before complete application.

Flooring Application: TopCrete 700 must be applied in a minimum thickness of 5 mm and a maximum thickness of 20 mm. Install all design elements prior to application of TopCrete 700. Aluminum, stainless steel, copper or glass strips can be used to outline the design. The strips must be securely fastened to the substrate. These strips can be used as a guide for the screeding process.

Apply a diluted coat of BondCrete (1:2) to the already dry coat of BondCrete. While still tacky, spread the TopCrete 700 mix using a gauge rake or a lightweight screed. Never apply the topping on a dry coating of BondCrete; application on a dried coating may lead to delamination of the overlay. Smooth out the surface immediately with a Fresno or a large rounded ends steel trowel with two to three passes only. Do not over trowel; the purpose is to fill voids left by the rake or screed only. Do not worry about the smoothness of the surface yet. Leave the surface undisturbed for 30-90 minutes, depending on the weather. The final smoothing process should occur at a time when the trowel leaves no evident marks on the surface. On large areas the use of a funny trowel is very efficient; if not leaves no evident marks on the surface. On large areas the use of a funny trowel is very efficient; if not

Walling Application: TopCrete 700 must be applied on a coat of DashCrete Splasher Dash Coat or on a properly prepared surface of ArtGrout 700 Brown Coat Ready Mix Plaster. Brown coat surfaces must be scratched horizontally to provide a good mechanical key with the final coat of TopCrete 700. Sufficient force must be used to develop full and intimate contact with the substrate.

Curing: TopCrete 700 is self-curing; do not water cure.

Aggregate Exposure: Aggregates may be exposed by either sandblasting, high-pressure water jet or the use of ExpoCrete 711 Concrete Surface Retarder. When sandblasting or high-pressure water jet is used, the topping must be allowed sufficient time to cure; a minimum of 14 days is recommended for sandblasting, and a maximum of 7 days for pressure water jet depending on strength of machine used.

For exposure by retardation, leave the surface to dry for at least 1-4 hours depending on the weather. As soon as the surface sheen diminishes apply a coat of ExpoCrete 711 Concrete Surface Retarder to the surface (please refer to the relevant CCC technical data sheet for more information). Use a brush and clean water to progressively expose the aggregates in several passes.

SEALING • Once the in-place TopCrete 700 has been exposed by either method and allowed to dry completely, it is highly recommended to seal the surface with A-Z Super Sealer, A-Z Ultra Sealer, A-Z Mega Sealer, ElastoCrete 212, or equivalent. Sealing the surface protects it against stains and enhances the color of the aggregates. For vertical applications, sealing with A-Z Penetrating Sealer might be adequate for sealing against stains, depending on the type of use, but will not enhance the color of the aggregates. Please refer to the relevant CCC technical data sheets for instructions. Sealed surfaces should be inspected periodically for traffic-worn areas and re-sealed as necessary.

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

STORAGE & SHELF LIFE • Keep material covered and off the ground to prevent exposure to moisture. Store in a dry, covered area away from direct sunlight. Under recommended storage conditions and when stored in original unopened packaging, expected shelf life is 12 months from date of purchase.

SAFETY PRECAUTIONS • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. CONTAINS CEMENT AND SILICA (QUARTZ). Portland cement and silica based products present health hazards. May cause delayed lung injury (silicosis). Irritating to eyes and skin. Use in adequate ventilation and do not breath dust. Extremely fine material, always use a NIOSH/MSHA TC 21C approved dust mask when handling, especially during spray applications. Use neoprene gloves, safety goggles, 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 bags.

SUGGESTED SHORT FORM SPECIFICATIONS • All architectural concrete surfaces designated in the plans or specifications as having an exposed aggregate topping surface shall have CREATIVE CONCRETE CONCEPTS TopCrete 700™ installed in accordance with manufacturer technical data sheet and written instructions. The surface must be primed with CREATIVE CONCRETE CONCEPTS BondCrete™ applied in two coats in accordance with manufacturer technical data sheet and instructions. TopCrete 700™ base color shall be
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[select from CCC Standard Color Chart], containing [1-3, 2-5] mm size [crushed marble, crushed glass, silica...etc.] aggregates in [__________] color. The topping shall be placed in [_____] mm thickness on a structurally sound, rigid, clean, and level concrete surface free of cracks and with properly laid out joints. The topping shall be finished to a smooth trowelled surface as outlines in the manufacturer’s data sheet and the aggregates exposed as recommended by manufacturer to achieve the desired finish. All finished surfaces must be sealed with CREATIVE CONCRETE CONCEPTS A-Z Ultra Sealer™, A-Z Super Sealer™, A-Z Mega Sealer™, or ElastoCrete 212™ in accordance with manufacturer technical data sheet and instructions. All products shall be manufactured by CREATIVE CONCRETE CONCEPTS, Sharjah, UAE and Amman, Jordan; info@tex-crete.com.