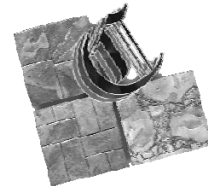


TopCrete 220

Micro Topping Skim Coat



DESCRIPTION • *TopCrete 220 Micro Topping Skim Coat* is a high performance single component polymer fortified, colored, cementitious micro topping that can be troweled, sprayed, brushed, or roll-applied on a variety of horizontal and vertical surfaces.

USES • *TopCrete 220 Micro Topping Skim Coat* is suitable for use to top, color, tint, repair, restore or antique exterior & interior floors & walls ranging from residential to heavy commercial and industrial applications. *TopCrete 220* can be applied in thicknesses ranging from featheredge to 1 mm, or layered to achieve larger thicknesses. *TopCrete 220* is suitable as trowel or roll-applied hard-wearing surface topping that can also be acid stained with *A-Z ChemStain*. *TopCrete 220* is also suitable for vertical surfaces finishing, applied by roll, trowel, brush or spray. With the proper technique using a trowel or sponge, *TopCrete 220* will give a variegated coloring effect on smooth vertical surfaces. *TopCrete 220* is ideal for restoring existing concrete floors or for unifying the appearance of concrete surfaces. When applied by spray gun, *TopCrete 220* is used to tint and color concrete and plastered surfaces, such as artificial rock.

ADVANTAGES

- ✓ Durable & long lasting.
- ✓ Will not separate after mixing with water.
- ✓ Highly flexible.
- ✓ Superior adhesion – applicable on a variety of surfaces.
- ✓ Water permeable and breathable.
- ✓ Exterior and Interior application.
- ✓ Single component - ready and easy to use.
- ✓ Excellent moisture and water resistance.
- ✓ Self priming.
- ✓ Fast drying.
- ✓ Self curing.
- ✓ UV Resistant.
- ✓ Wide range of application techniques.
- ✓ Available in 40 standard colors.

COVERAGE • The coverage will vary depending on application technique, substrate, and finish. The following are typical ranges:

Sponge	100-120 m ² per 20 kg bag.
Brush	60-80 m ² per 20 kg bag.
Roll	60-80 m ² per 20 kg bag.
Spray	80-100 m ² per 20 kg bag.
Trowel	30-50 m ² per 20 kg bag.

LIMITATIONS • When applied to old concrete surfaces, particularly for high traffic applications, a coat of *BondCrete* must first be applied to the surface. In all flooring applications, the surface must be sealed with *A-Z Super Sealer* once the surface has cured for a minimum of 48 hours. If the surface coated with *TopCrete 220* is to be chemically stained, it must be allowed to cure for a minimum of three days.

Where thicknesses larger than 1 mm are desired, *TopCrete 220* must be layered in several applications, allowing each layer to dry for a minimum of 3-4 hours before applying the next layer.

Do not apply if ambient temperature is expected to drop below 7°C, or if rain is expected in the proceeding 24 hour period after application. Do not apply in direct sunlight, or when temperature will exceed 35°C under direct sunlight.

PHYSICAL PROPERTIES

Test	Criteria	Result
Compressive Strength (EN 12808-3:2002)	≥ 3.5 N/mm ²	4.09 N/mm ²
Flexural Strength (EN 12808-3:2002)	N/A	2.13 N/mm ²
Abrasion Resistance (EN 12808-2:2002)	≤ 2,000 mm ³	216 mm ³

SURFACE PREPARATION • *TopCrete 220* can be applied on an array of bases. It is very compatible with new concrete, cement based tiles, terrazzo, masonry, and primed wood surfaces. All bases should be sufficiently rigid, and clean of any surface contamination that may prevent good suction. 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 or pressure washed to remove existing coatings. Cracks should be corrected with a patching compound such as *PatchCrete 102 Crack Filler*. Under extreme weather conditions, and on highly porous absorptive surface, vertical substrates should be primed with *A-Z PrimeBond*.

On flooring applications, particularly in high traffic areas, it is necessary that a coat of *BondCrete* first be applied to old concrete surface in order to unify the surface and level out any holes or hairline cracks. On new concrete surface, it is recommended but not necessary to apply a coat of *BondCrete*. For vertical applications, the surface must first be primed with a coat of *A-Z PrimeBond*. Please refer to the



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relevant CCC technical data sheets for installation instructions.

MIXING • Mixing should be done with a drill mounted jiffy-type mixer. Always add clean potable water first. Mixing duration should last for 2 to 3 minutes to insure proper color and material dispersion within mix. Allow mix to stand for 5 minutes and re-tamper. The water to powder mixing ratio depends on the method of application. Refer to the APPLICATION section for instructions.

APPLICATION • Application temperatures should be between 5°C and 35°C. Always test a small area to ensure bonding ability and satisfaction of appearance before total application. **TopCrete 220** may be applied by sponge, brush, roll, spray, or trowel. The ideal method for dosing water is parts by volume. Use all mixed material within 4 to 6 hour.

Sponge, Brush, and Roll Application

TopCrete 220 can be sponged, brushed, or rolled on using a roller with 1/2" nap for smooth surfaces, or 3/4" nap for rough textured surfaces. Generally the higher the amount of water, the more transparent the finish will be. A minimum of one part **TopCrete 220** to one part water is needed for workability. The mixture can be diluted with up to three parts water for a light tint.

Spray Application

TopCrete 220 can be sprayed using a gravity feed air spray gun, ideally having a 2.8Ø nozzle. **Warning: All personal in the area must wear an approved dust respirator while applying TopCrete 220 by spray.** Generally one part **TopCrete 220** to one part water is used for the first coat. If a blended effect is desired, apply consequent coat while the previous coat is still wet. If distinction between different colors is desired, allow each coat to dry for at least two hours before applying the next coat

Trowel Application

TopCrete 220 can be applied by trowel for a strong, high-wearing layer. Mix two parts **TopCrete 220** to one part water to achieve a workable paste. Lower amounts of water can be used, depending on applicator's preference. Apply each coat and allow to cure for a minimum of two hours between each coat. Different colors can be used to achieve an old world plaster look. The surface can be sanded with 320-800 mil sand paper to produce an elegant sheen, and to remove trowel marks if not desired. Allow a minimum cure of 12 hours before sanding. If the surface is to be saw cut, allow to cure for a minimum of 24 hours.

CURING • **Do not water cure.** **TopCrete 220** is self curing. Apply water to the surface only if the final look requires such technique. **TopCrete 220** dries (to touch) in approximately 30 minutes. Horizontal surfaces can be opened to minimal traffic in 2 hours and opened to heavy traffic after 24 hours. Cooler temperatures may lengthen curing time.

SEALING • **A-Z Super Sealer** is highly recommended for sealing the surface against abrasion and absorption. **TopCrete 220** must be allowed to cure for a minimum of 48 hours before sealing. On heavy commercial applications, a maintained wax coat application is recommended for maintenance. 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. Use hot water if experience difficulty with cleaning.

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. 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 • 20 kg bags.

Creative Concrete Concepts

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