

EpoCrete 1000

Quartz Carpet Flooring



DESCRIPTION • *EpoCrete 1000* is a three-component floor coating system composed of a solvent-free, clear epoxy resin and colored or naturally colored quartz aggregates or fine crushed marble or stone to provide a highly decorative and attractive yet abrasion resistance, durable, and hygienic flooring. *EpoCrete 1000* may be applied in various thicknesses with excellent anti skid properties and chemical resistance features.

The quartz aggregates are available in a wide range of color in addition to naturally colored stone and quartz. Different colors of aggregates may be mixed together to produce an endless array of visual effects suiting any taste or environment.

USES • *EpoCrete 1000* is suitable where an anti-skid, heavy duty, hygienic, chemically resistant and hard-wearing yet visually appealing floor finish is required. *EpoCrete 1000* is ideal for factories, laboratories, workshops, commercial bathrooms and kitchens, gymnasiums, workshops, warehouses, pool decks and car showrooms. Depending on the aggregate size, *EpoCrete 1000* may be applied in thicknesses as little as a few millimeters.

ADVANTAGES

- ✓ Easy to apply by trowel or broadcast.
- ✓ Excellent anti-skid properties.
- ✓ Solvent free, low VOC.
- ✓ Attractive finish with endless variety of colors.
- ✓ High impact and chemical resistance.
- ✓ Hard wearing and abrasion resistant.
- ✓ Low maintenance costs.
- ✓ Provides a hygienic, impervious finish.
- ✓ Easy to clean.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. The concrete floor must first be primed with *EpoPrime EP/EP1* or equivalent. Do not apply if temperature drops below 10°C or exceeds 40°C.

PHYSICAL PROPERTIES

Solids Volume	100%
Application Temperature	12°C to 40°C
Pot Life	1 hour at 20°C 40 minutes at 35°C
Tack Free Time	5-6 hours at 20°C 3-4 hours at 35°C
Initial Hardness	24 hours at 20°C 16 hours at 35°C

Minimum Service Temp.	10°C
Maximum Service Temp.	80°C
Shore D Hardness ASTM D 2240	70
Compressive Strength ASTM C109	57 N/mm ²
Flash Point	Non-flammable

CHEMICAL RESISTANCE • Fully cured *EpoCrete 1000* samples have been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

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|------------------------|---------------|
| • Gasoline | Excellent |
| • Petrol | Excellent |
| • Diesel | Excellent |
| • Engine Oil | Excellent |
| • Brake Fluid | Excellent |
| • Sod. Hydroxide (20%) | Excellent |
| • Sulfuric Acid 50% | Discoloration |
| • HCl 50% | Discoloration |
| • Acetic Acid 10% | Excellent |
| • Lactic Acid 10% | Excellent |

COVERAGE • Application rate will vary according to surface conditions and profile, application technique, aggregate size and job conditions. Coverage is approximately 0.4 m²/kg at 1 mm thickness on a level concrete surface for a trowel-on application.

SURFACE PREPARATION • All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be sponge dried to remove all free surface water then dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning.

New concrete floors should be at least 28 days old. Excessive laitance should be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning.

Damaged areas or surface irregularities should be repaired using *MortCrete 3000* and allowed to cure for at least 12 hours. Light grinding or shot blasting of the surface is recommended for good mechanical keying and to remove any weakened concrete.

MIXING • The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use a heavy-duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure

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hardener container is scraped clean. Do not add solvent thinners at any time. For trowel-on applications, slowly add the colored quartz aggregates to the epoxy and mix thoroughly for a few minutes with a power drill until a uniform consistency is reached. If the aggregates are to be broadcast over the epoxy, do not mix the quartz aggregates with the epoxy in the container.

APPLICATION • The concrete surface must first be primed with *EpoPrime EP/EP1* – refer to the relevant CCC technical data sheet for application instructions. Do not allow the primer to completely dry, the primer must be tacky during application of *EpoCrete 1000*. Work small sections at a time while wearing spiked shoes.

Trowel-On Technique: While the primer surface is tacky, place dabs of the epoxy and colored quartz mixture on the surface and spread out with a notched trowel. Even out with a steel trowel and work to a level surface free of voids and gaps. Alternatively, the mixed material may be placed on the concrete surfaces and screeded then hard trowelled to achieve good compaction and an even, level surface.

Broadcast Technique: For high anti-skid properties, apply the epoxy mixture to the primed surface with a short hair nap roller then broadcast the quartz aggregates to rejection; typically at 1.5 m²/kg depending on the aggregate size. Allow the base coat epoxy to cure over night then brush off excess quartz aggregates. Apply a top coat of *EpoCrete 100HB Clear Epoxy Binder and Base Coat* to lock in the aggregates. For higher buildup, another broadcast layer may be applied once the first layer has cured overnight.

SEALING • For easy cleaning of trowel-on applications, the surface may be sealed a clear top coat such as *EpoCrete 100 Clear Epoxy Coating* or *EpoCrete 100HB* (interior applications only) or *ElastoCrete 212 Clear PU Sealer*.

CLEANING • Tools and equipment must be cleaned with an organic solvent.

STORAGE & SHELF LIFE • Product should be stored at 25°C in dry conditions away from direct sun light. Shelf life is approximately 12 months from date of purchase in original unopened container at specified storage temperature.

SAFETY PRECAUTIONS • The application of material should be under good ventilation. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately.

The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.

PACKAGING • *EpoCrete 1000* may be provided in pre-measured, ready-to-use kit for trowel-on applications composed of *EpoCrete 100HB* 1.5 kg kit (parts A and B) and a 20.5 kg bag of aggregates. For broadcast applications *EpoCrete 100HB* is available in 4.5 kg kits (parts A and B) and aggregates are available in 25 kg bags.

Creative Concrete Concepts

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