

ElastoCrete 1000S

Stone Carpet



DESCRIPTION • *ElastoCrete 1000S* is a flooring system composed of colored natural aggregates bound with a UV-stable polyurethane binder for interior or exterior applications. *ElastoCrete 1000S* may be applied in a wide range of thicknesses, depending on the aggregate size, but most typically in 15-20 mm thickness, to produce a highly durable and attractive surface on exterior pavements or interior floors. *ElastoCrete 1000S* offers an endless variety of colors and finishes to choose from.

USES • *ElastoCrete 1000S* is suitable where an anti-skid, heavy duty, hygienic, chemically resistant and hard-wearing yet visually appealing floor or pavement finish is required. *ElastoCrete 1000S* is ideal for exterior pavement applications such as parks, walkways, driveways and pool decks.

ADVANTAGES

- ✓ Fast and easy to apply by trowel.
- ✓ Excellent anti-skid properties.
- ✓ Low VOC.
- ✓ Attractive finish with endless variety of colors.
- ✓ High impact and chemical resistance.
- ✓ Hard wearing and abrasion resistant.
- ✓ Low maintenance costs.

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 EP1* or *EpoPrime 100*. Do not apply if temperature drops below 10°C or exceeds 40°C.

PHYSICAL PROPERTIES

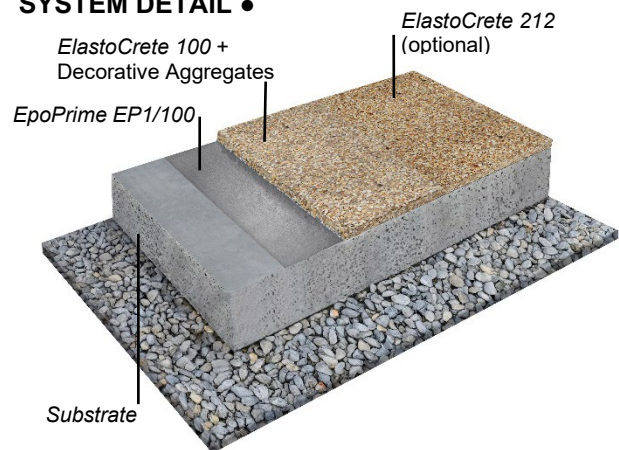
Granule Type	Natural stone, marble, quartz
Granule Shape	Crushed or rounded
Granule Sizes	Various
Surface Texture	Textured
Tack Free Time	8-10 hours at 20°C
Maximum Service Temp.	80°C
Minimum Service Temp.	-20°C
Adhesions Strength ASTM D4541	2.5 MPa

CHEMICAL RESISTANCE • Fully cured *ElastoCrete 1000S* samples have been tested for chemical

resistance to the following chemicals for 7 days @ 25°C:

• 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

SYSTEM DETAIL



COVERAGE • Application rate will vary according to aggregate size and type and surface profile. Typically, a 4.5 kg kit of *ElastoCrete 100* mixed with three 25 kg bags of aggregates yields about 4-4.25 sqm at 10 mm thickness.

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 laitance. Damaged areas, surface irregularities, and cracks must be repaired with *MortCrete 3000 Multi-Purpose Epoxy Mortar* prior to application. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces.

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.

MIXING • The entire contents of the *ElastoCrete 100* hardener container should be poured into the base container and the two components 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 hardener container is scraped clean. Do not add solvent thinners at any time. Add the mixed *ElastoCrete 100* to the decorative aggregates at a ratio of 6-10% by weight, depending on the aggregate absorbency, size and shape. For small quantities, a slow speed hand mixer may be used; for large quantities it is recommended to use a drum mixer or concrete mixer to ensure that *ElastoCrete 100* thoroughly wets the surface of the aggregates.

APPLICATION • The concrete surface must first be primed with *EpoPrime EP1* or *EpoPrime 100* – 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 *ElastoCrete 1000S*. Work small sections at a time while wearing spiked shoes.

After the aggregates and the resin have been thoroughly mixed, pour the mixture on the primed substrate and spread using hand-held trowels. A straight aluminum edge may be used to spread the mixture to the desired level and thickness. Use hand-held trowels to further level and compact the surface. Use of a lightweight power trowel might be possible in some cases to ensure thorough compaction.

Top Coat: A sealer coat is in most cases not required since a resin-bond pavement's water permeability characteristics are desired. If a matte appearance is required, a coat of *ElastoCrete 212 Water-Based PU Sealer* may be applied after the resin-bond aggregate surface has been allowed to cure overnight. Please refer to the relevant data sheet for mixing and application instructions.

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

STORAGE & SHELF LIFE • Product should be stored in dry conditions away from direct sun light.

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.