

DESCRIPTION • *ElastoCrete 2000* is a high-performance, multi-component, hybrid polyurethane flooring screed composed of a two-part PU binder and high abrasion resistance graded silica aggregates. Applicable in 4-6 mm thicknesses in a single pass, *ElastoCrete 2000* provides a flexible, tough and heat-resistant hygienic surface.

USES • *ElastoCrete 2000* is ideal for application where a highly-durable and abrasion resistant hygienic surface is required. *ElastoCrete 2000* is suitable for bottling plants, food warehouses, meat processing plants, freezers and coolers, industrial kitchens, and food and beverages processing plants.

ADVANTAGES

- ✓ Hygienic, seamless, and impervious surface.
- ✓ Skid resistant
- ✓ High impact resistance.
- ✓ Excellent waterproofing properties.
- ✓ Wide application temperatures range: -20°C to 100°C (depending on thickness)
- ✓ Hard wearing and durable.
- ✓ High abrasion resistance.
- ✓ Solvent free.

LIMITATIONS • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. UV radiation will cause discoloration, an aliphatic polyurethane topcoat is recommended where exposed to sunlight.

PHYSICAL PROPERTIES

Tack Free Time	4-5 Hours at 25°C 3-4 Hours at 35°C
Shore D Hardness (ASTM D 2240)	70
Full Cure	7 days at 25°C
Compressive Strength BS 6319-Part 6	54.4 MPa
Tensile Strength BS 6319- Part 7	8.7 MPa
Adhesion Strength to Concrete (ASTM D 4541)	Substrate Failure

CHEMICAL RESISTANCE • Fully cured *ElastoCrete 2000* 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 |
| • White Spirit | Excellent |
| • Brake Fluid | Excellent |
| • Sulfuric Acid 10% | Excellent |
| • Hydrochloric Acid 35% | Excellent |
| • Acetic Acid 5% | Excellent |
| • Lactic Acid 20% | Excellent |
| • Ammonia 30% | Excellent |
| • Sodium Hydroxide 25% | Excellent |

COVERAGE • Application rate will vary according to surface conditions, surface profile, application technique and job conditions. Coverage rates of 9kg/m² at 4 mm DFT are dominant.

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 and have a moisture content of less than 5%. The relative humidity at the surface should not be more than 25% as per BS8201:1981. Excessive laitance should be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning.

Old concrete floors: damaged areas or surface irregularities should be repaired with *MortCrete 3000*.

MIXING • Add color pack to the base component and mix for 2 minutes. Entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 2-3 minutes. Add fillers and mix for another 2-3minutes. Use a heavy-duty slow speed power drill with a jiffy mixing blade. Do not add solvent thinners at any time.

APPLICATION • Priming is recommended for concrete surfaces by using *ElastoCrete 2000* in 1mm scratch coat.

ElastoCrete 2000 should be applied to prepared surface by using a steel trowel. Apply sufficient pressure to compact and level the surface. *ElastoCrete 2000* may be applied in thickness ranging from 4 to 6 mm in a single application. Application in higher thicknesses may require much longer curing time.

For applications where sunlight exposure is anticipated, it is recommended to apply a UV resistant topcoat such as *ElastoCrete 6500* or

ElastoCrete 2000 Polyurethane Floor Screed

ElastoCrete 212/222. Ensure that the PU screed has fully cured overnight before application of the topcoat.

Allow the flooring system to reach its full mechanical properties after a curing period of 7 days before subjecting to high abrasion and chemical exposure.

CLEANING • Tools and equipment must be cleaned with an organic solvent such as *SolvCrete 100*.

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 • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY, HARMFUL OR FATAL IF SWALLOWED. 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 • *ElastoCrete 2000* is supplied in a 20.3kg kit.

Creative Concrete Concepts

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