

# EpoCrete 5000S

## Epoxy Floor Screed



**DESCRIPTION** • *EpoCrete Screed 5000S* is a high-performance, three-component, epoxy flooring screed applicable in 5.0 mm thicknesses. *EpoCrete Screed 5000S* forms a high-build screed with excellent adhesion to concrete and abrasion resistance.

**USES** • *EpoCrete Screed 5000S* is suitable for use in heavy steel engineering plants, workshops, dairies, soft drink production and bottling plants, kitchens, showrooms, wet working areas and other areas with chemical spillage.

*EpoCrete Screed 5000S* provides a hard wearing, easily-cleanable and attractive floor coating in areas where high resistance to chemical attack is required.

*EpoCrete Screed 5000S* is used as a final coating and sealer for concrete floors, with a non-skid finish when sprinkled over with quartz granules, and as a finish coat for epoxy floor screeds to provide a more durable and easily cleaned surface where high impact is desirable.

### ADVANTAGES

- ✓ Non-slip finishing.
- ✓ High impact resistance.
- ✓ Hard wearing and durable.
- ✓ High abrasion resistance.
- ✓ Provides a hygienic and impervious finish
- ✓ Non-toxic.
- ✓ Solvent free.
- ✓ Available in gray, buff, and red colors.

**LIMITATIONS** • Never apply to new concrete surfaces before they have been allowed to cure for a minimum of 28 days. Not suitable for external applications – epoxy exposure to sunlight and UV radiation will cause discoloration.

### PHYSICAL PROPERTIES

Mixed Density	1.9 ± 0.05
Solids Volume	100%
Tack Free Time	4-5 Hours at 20°C 3-4 Hours at 35°C
Pot Life	60 minutes at 20°C 40 minutes at 35°C
Full Cure	7 days at 20°C 5 days at 35°C
Compressive Strength ASTM C109-90	90 N/mm <sup>2</sup>
Tensile Strength ASTM D 412	17 N/mm <sup>2</sup> for 7 days at 25°C

Abrasion Resistance, H - 22 ASTM C501	6.8 x 10 <sup>5</sup> gm/cycle
Flash Point	Non-flammable

**CHEMICAL RESISTANCE** • Fully cured *EpoCrete Screed 5000S* samples have been tested for chemical resistance to the following chemicals for 7 days @ 25°C:

• 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
• Sod. Hydroxide 25%	Excellent

**COVERAGE** • Application rate will vary according to surface conditions, surface profile, application technique and job conditions. Coverage rates of 3.2 m<sup>2</sup>/pack at 5 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*.

**Steel surfaces:** should be grit blasted to surface quality SA 2 ½ and primed with a single coat of primer.

**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 hardener container is scraped clean. Do not add solvent thinners at any time.

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**APPLICATION** • Priming is recommended for concrete surfaces by using *EpoPrime100*, a two component, high solid content epoxy primer – please refer to the relevant CCC technical data sheet for application instructions.

*EpoCrete Screed 5000S* should be applied to prepared surface by using a steel trowel and then tamped down with a wooden float for more compacting.

*EpoCrete 150* can be applied as an overcoat to seal the surface as well as line it if required.

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

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**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.

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**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.

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**PACKAGING** • 12-liter packs (includes hardener, base and aggregate components).

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### Creative Concrete Concepts

PO Box 925794, Amman 1110, Jordan; Tel +962-6-487-4078, Fax +962-6-488-9133 • PO Box 91234, City of Industry, CA 91715-1234, USA; Tel +1-909-266-0709, Fax +1-909-266-0711 • PO Box 31017, Sharjah, UAE; Tel +971-6-532-1119, Fax +971-6-532-8833

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