EXTERIOR
FLOOR LEVELLING AND RESURFACING COMPOUND

SETCRETE™
TRADE QUALITY YOU CAN TRUST

SETCRETE™ EXTERIOR FLOOR LEVELLING AND RESURFACING COMPOUND

a non-structural grade exterior floor levelling compound, which is suitable for use under external coverings, such as artificial grass or tiles. It can also be used as a standalone wearing surface.

- SUITABLE FOR EXTERIOR USE
- CAN BE USED UNDER AN EXTERNAL COVERING
- SUITABLE AS A STANDALONE WEARING SURFACE
- WATER MIX
- CAN BE BE USED UNDER SETCRETE™ RAPID SET DPM

SETCRETE™ EXTERIOR is a non structural exterior grade smoothing compound for use in light to medium duty applications to smooth and level rough or mechanically damaged concrete or sand / cement screeds.

SETCRETE™ EXTERIOR is ideally suited for smoothing areas such as balconies, patios, garages and walkways and is unaffected by rain or frost when set and dried. It is also suitable for smoothing subfloors prior to the application of a suitable non-slip coating or external covering such as artificial grass or tiles.

SETCRETE™ EXTERIOR is also suitable for internal application over damp, uneven concrete and sand/cement screeds, prior to application of SETCRETE™ RAPID SET DPM.

SETCRETE™ EXTERIOR can be left as a stand-alone exterior wearing surface. To give a more natural surface finish and to reduce the potential for slip, if left uncovered, it is recommended that a scratch coat is applied to the surface and brush finished to a textured profile.

SETCRETE™ EXTERIOR can also be pump applied up to 900m2 per day, dependent upon manpower, thickness applied and equipment used.

As a guide for the use of products from the SETCRETE™ range, see the SETCRETE™ PRODUCT GUIDE.

Technical Information

Class R2 to BS EN 1504-3:2005		
Working Time @ 20°C		10-15 minutes
Walk on hard time @ 20°C		from 2 hours
Compressive Strength N/mm² (EN 12190)	28 Days	>25.0
Flexural Strength N/mm² (EN 196-1)	28 Days	>6.0
Density (EN 12190)		1900 kg/m³
Abrasion resistance (EN 13892-4)		AR 1.0
Skid resistance (EN 13036-4)	Uncoated Scratch coat	Class II > 40 units dry Class II > 55 units wet
Application thickness	Unfilled Filled	5–15mm Up to 50mm

Coverage

Approximate coverage rates for a 20kg unit as follows:

THICKNESS	COVERAGE
5mm	2.2m²
10mm	1.1m²
50mm (filled)	0.3m²
Scratch coat	12m²

Note: Figures will vary according to the condition of the subfloor.

Packaging

20kg lined paper sacks.

Standards

When used as a non-structural repair PCC mortar for the repair principles 3 (CR), repair methods 3.1, SETCRETE™ EXTERIOR is in conformity with the relevant type requirements of BS EN 1504-3: 2005.

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Preparation
Exterior floor surfaces must be mechanically prepared: sound, surface dry (no standing water) and free from contaminants that may prevent adhesion.

Concrete and sand/cement screeds must be fully cured, any laitance or surface treatments must be removed and free from any loose material. The temperature of the floor must be maintained above 10°C throughout the application and drying of the compound. Ensure that all joints subject to movement, i.e. expansion and isolation joints, are carried up through SETCRETE™EXTERIOR and filled with a suitable joint sealant.

Holes or large depressions up to 50mm in depth should be repaired using SETCRETE™EXTERIOR filled mix – see below. Once the material has sufficiently set, overcoating with SETCRETE™ EXTERIOR standard mix can proceed following priming as described below.

Priming
Absorbent surfaces – Concrete and sand/cement screeds must be primed with SETCRETE™ ACRYLIC PRIMER diluted 1:7 with water.

Mixing
Standard Mix: Add 3.40 litres of clean water into a mixing bucket and gradually add all the powder whilst stirring with a power whisk fitted in an electric drill until a smooth creamy lump free consistency is achieved. The material should be mixed for a minimum of 3 minutes.

Filled Mix: Add 12.5kg of 3mm clean pea gravel to the prepared standard mix. It is advisable to reduce the level of water by 0.20 litres to prevent separation of the mix.

Pump Application
Mix in accordance with the pump manufacturers recommendations and adjust the rate of water flow until the mix is a smooth fluid, uniform grey liquid with no surface separation. Flow checks should be carried out at regular intervals during pumping.

Application
Pour the mixed material onto the prepared subfloor and allow to flow and attain a smooth finish. Minimal work with a smoothing trowel is required. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines to give a more uniform surface appearance. The mixed material should be applied at a thickness between 5mm to 15mm. For best results, an overall thickness of at least 5mm should be maintained when used as an exterior resurfacing compound.

SETCRETE™ EXTERIOR can also be applied to slight gradients. To ensure the consistency is suitable and reduce the flow properties, we recommend reducing the water content to 3.20 litres to produce a stiffer consistency. Further reductions can be made if required e.g. at increased thicknesses, but we would recommend no lower than 3.0 litres of water per 20kg unit.

SETCRETE™ EXTERIOR is self-smoothing, but should any imperfections remain they can be removed by rubbing with a carborundum stone when the compound will accept foot traffic - typically 2 hours after application at 20°C. This time will be extended with reduced temperature i.e. approximately 4 hours at 10°C.

Scratch Coat
To achieve a scratch coat, mix 20kg of SETCRETE™ EXTERIOR with 3.40 litres of water and apply to freshly set material. Pour the material onto the surface and spread thinly using a steel trowel across the surface to leave a textured appearance. Alternatively a broom finish can be used if required.

Working Time
Approximately 10-15 minutes at 20°C depending on subfloor absorbency, ambient temperature and humidity.

Setting Time
Walk on time is typically 2 hours.

Drying Time
Drying is dependent on the absorbency of the subfloor, ambient temperature and humidity. Where a floorcovering is being bonded onto the subfloor, at a nominal 5mm thickness, SETCRETE™ EXTERIOR will be ready to receive most floorcoverings or coatings after 24 hours.

Precautions
The applied material should be protected from sun whilst applying and drying – if necessary, temporary shading / protection should be considered. Do not apply in excessively windy conditions as this can affect the surface drying and the finished appearance. Ensure the surface cannot be contaminated from loose debris – e.g. leaves, litter etc. as this can dry into the surface of the material.
Do not apply in rain or when rain is forecast or in frosty conditions – if necessary, temporary protection should be installed. Protect from frost while the material is drying.
New concrete should be allowed to cure for 28 days before the application of SETCRETE™ EXTERIOR.
This product is not suitable for application to tarmac or asphalt subfloors.
For other subfloors, contact Technical Service Department for specific guidance.

Tools
Suitable smoothing trowel, clean mixing bucket, measuring bucket, spiked roller, power whisk, electric drill. Clean tools in water immediately after use.

Storage
Store in unopened bags, clear of the ground in cool, dry conditions. Protect from frost and excessive draught and use within 6 months of the date stamped on the bag.

Health and Safety Advice
This product is classified. Obtain the relevant Safety Data Sheet and follow the advice given. These can be found at www.setcrete.co.uk alternatively they can be obtained from the point of purchase or from F. Ball and Co. Ltd. at the address below.

For further information or technical assistance about SETCRETE™ products and to confirm this data sheet is current, please contact Technical Service Department.

BALL
F. Ball and Co. Ltd.

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