



REDOKRETE 1540

Underlay and overlay
thin screed heavy
duty 15 to 40 mm

Description:

REDOKRETE 1540 is a single-component, pre-blended dry mortar made of cement, high-strength graded aggregates, and performance polymers. It only requires water to mix.

REDOKRETE 515 can be applied at a thickness of 15 to 40mm on both new and existing concrete surfaces.

There are two types available:

For Internal Use: Suitable for any type of industry. If the thickness is more than 18mm, you can mix in 8mm down high-quality aggregates.

For External Use: Can be used in areas exposed to UV radiation or those that are constantly wet. For thickness over 18mm, mix in 8mm down high-quality aggregates.

REDOKRETE 1540 is a floor refurbishment system that gives a finish similar to a power-troweled concrete surface but with better wear resistance. It can be applied on uneven surfaces to create a smooth, level floor.

Uses:

- It can be applied at the correct levels, even on uneven or wavy substrate floors.
- The final surface resembles a power trowelled concrete finish but offers greater wear resistance.
- Suitable for all industries, with floor thicknesses between 5mm and 15mm, applicable for both new installations and resurfacing.

Advantages/Characteristics:

- REDOKRETE 1540 can be used as the final surface or can be overcoated with other finishes.
- It takes just 48 hours to cure and harden, making the floor ready for full traffic after this period.
- It's simple to install with minimal tools and equipment, so any flooring contractor can handle the job.
- Large areas can be installed in a single day.
- Suitable for both indoor and outdoor conditions.
- Designed to work well in a variety of site conditions.

Company Standard Compliance:



Technical Information:

Properties	Description
Compressive Strength (7 days)	>30 N/mm ²
Compressive Strength (28 days)	>35 N/mm ²
Flexural Strength (28 days)	>7 N/mm ²
Density	2350 Kgs/m ³
Adhesion Strength (2 days)	1.5 - 2 N/mm ²
Adhesion Strength (28 days)	2.5 - 2.8 N/mm ²

Water:Powder	0.13-0.14
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Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, depending on actual site condition.

Method of Application:

Priming

- Use our product PRIMIBOND to increase uniform bonding strength over substrate. Before applying it please remove all loose particles and prime it by clean water. Then apply PRIMEBOND by brush roller or spray. Let it dry for 6 to12 hrs.

Old concrete floors:

- For surfaces with deep contamination, use mechanical methods like blasting, grinding, or scabbling to clean the area. Any repairs or adjustments to uneven surfaces should be done with MICROCON RGL.

New concrete floors:

- The concrete should be at least 21 days old before treatment. The floor must be solid and free from contaminants like dirt, grease, mortar, paint splashes, or curing compound residues. The surface should have a profile of CSP 7-9, which can be achieved through methods like pneumatic scabbling, scarifying, milling, or grinding. Afterward, wash the surface with clean water, use a wet vacuum to clean, and let it dry. Light oil and grease stains can be cleaned with degreasers and then washed with clean water.

Limitations:

- Concrete slabs onto which REDOKRETE 1540 is to be applied must have a surface temperature of at least 5°C, with the air temperature maintained at 10°C, or more, during application.
- For temperatures above 35°C refer to "Hot Weather working".
- Prevent freezing of REDOKRETE 1540 for 48 hours from placement.

- REDOKRETE 1540 should not be applied to asphalt substrates.
- If the substrate onto which REDOCRETE 1540 is applied moves or cracks, reflective cracking may occur.
- Only suitable for use out of direct sunlight and/or drying winds during application and initial curing period

Mixing Instruction:

Mix REDOKRETE 1540 in a forced action pan or drum mixer. For smaller batches, use a paddle mixer or mixing station with a maximum speed of 600 rpm. Always add the powder to the water. Start with 3.5 liters of water in an empty container, then gradually add 25 kg of Cemtop OUL40 powder and stir until you reach the desired consistency. The mix should have a slump similar to concrete (60-80). If needed, you can add up to 0.5 liters of water to achieve a trowelable consistency.

Working Precautions:

REDOKRETE 1540 should be applied on a surface that has been properly scarified and primed with PRIMEBOND to ensure a strong bond with the base concrete. Use guides or side forms to match the desired finished floor level (FFL). Pour the mixed material between the forms, then spread and level it using a single beam vibrator or vibratory bull float. Level the surface with floats, bump cutters, and other tools. Make sure to properly trowel and float the edges.

Joints:


Forming grooves to match joints of base or forming panels of maximum 25 m².


Storage & Shelf-life:


REDOKRETE 1540 has a shelf life of 12 months and PRIMIBOND has a shelf life of 24 months, when stored in warehouse conditions below 20°C in the original, unopened packs.


Health & Safety:

Full health and safety Information can be supplied on request. The unmixed powder is irritant as is any cement product and direct skin contact should be avoided.

	ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance
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	ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.
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	ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.
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	ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.
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