

KÖSTER

OIL REMOVAL SYSTEM



KÖSTER ORS is an oil-removal and containment treatment process to rehabilitate concrete surfaces making them suitable to receive any type of flooring system. The KÖSTER Oil Removal System (ORS) consists of two components:

- A cleaning system using a special detergent, KÖSTER ORS-D
- An oil resistant primer coating, KÖSTER ORS-C, with a sand broadcast

The KÖSTER ORS-D has the ability to penetrate deep into the concrete surface to extract oil and/or hydrocarbon based compounds leaving a clean surface for the ORS-C coating. Both products combine to provide a dry, uncontaminated surface which is fit to receive flooring/coating systems.

1. Before the application of KÖSTER ORS the surface is to be prepared thoroughly. The



substrate must be sound and absorptive and should furthermore be free of Alkaline Silica Reactive or sulphurous compounds. Any type of surface contamination such as adhesives, adhesive residue, old coatings, curing compounds and underlayments must be removed completely by shot blasting prior to the ORS treatment being applied.

- Subsequently to the surface preparation the substrate is cleaned from its oil contamination. KÖSTER ORS-D foam is laid down in a “carpet” onto the concrete. A spread rate of about 0.1 – 0.2 liters per square meter is required for the ORS-D (based on a total two coat application). A wait of about 1 hour allows its ingredients to penetrate the capillary system of the concrete cap and float the contained oil to the surface. After the waiting time, spinning



operations begin. This phase uses hot water and a deck spinner washer to clean the surface from the oil that has been washed out and the remaining foam. After the rinse a squeegee and a vacuum is used to remove all standing water from the area to be coated. Depending on the level of contamination more KÖSTER ORS-D treatments can be necessary.

- The KÖSTER ORS-C primer is now applied onto the cleaned but still moist concrete. It has a very low viscosity and can therefore be applied with a roller. A spread rate of about 0.4 liters per square meter is required for the KÖSTER ORS-C. After a curing time of about 15-20 minutes silica sand is broadcasted into the still wet coating. A spread rate of 0.5 kg of sand (mesh size 0.3-0.7 mm) per square meter is required. The sand is important for the adhesion properties regarding the subsequent coatings. After a minimum curing time of 12 hours (depending on the temperatures) the remaining sand can be swept up.



- After the completion of this process the cleaned and primed concrete is ready to receive a top coating. KÖSTER Self-Levelling Floor 15 is a single-component levelling that is applied in a



layer thickness of 2-8mm. It can be walked on after only 3 hours of curing time and it is abrasion and wear resistant. KÖSTER Self-Levelling Floor 15 is used for levelling out mineral substrates inside and outside, underneath tiles, ceramic coverings, screeds - also for wet rooms, balconies and terraces. KÖSTER Self-Levelling Floor 15 is not a decorative final coating.

For further information and technical details **please read the technical leaflet** or consult our technical consultants.