Application

TECHNICAL

OIL BUSTER SYSTEM™
For Slab Reclamation

AC•Tech Oil Buster System™
Oil Removal & Containment

AC•Tech Oil Buster System™ (OBS) is a two part oil removal and containment system for concrete substrates that are contaminated with hydrocarbons and are in need of a permanent solution to receive a flooring or coating system. OBS consists of a non-toxic, solvent free, biodegradable detergent (OBS - D) and a two-component low VOC, epoxy coating (OBS - C).

OBS-D The Oil Buster System™ Detergent (OBS-D) is a a deep cleaning agent that combines with hot, high pressure water to penetrate deep into the pores and capillaries of the contaminated concrete. The OBS - D bonds chemically to any hydrocarbon contaminates within the concrete and "floats" them to the surface for easy removal and disposal.

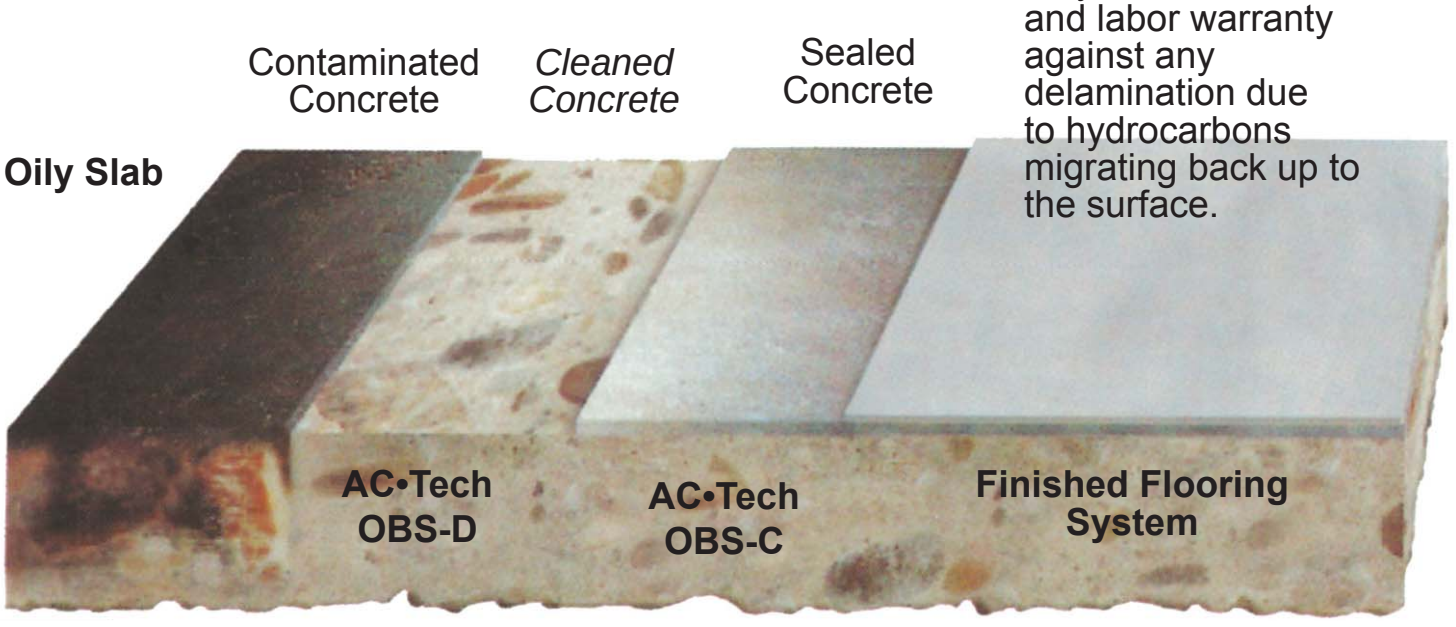
OBS-C The Oil Buster System™ Coating (OBS-C) is a very dense and oil resistant two-component epoxy coating. When applied to concrete previously deep-cleaned with OBS - D, OBS-C prevents oil that has remained deep within the concrete from migrating to the surface causing flooring failures. It requires a sand broadcast for adhesion of subsequent systems.

These two OBS products combined will remove surface hydrocarbon contaminates and provide a tenaciously adhered, permanent barrier against upward movement of any contaminates left within the concrete substrate.

AC•Tech provides a 15 year material and labor warranty against any delamination due to hydrocarbons migrating back up to the surface. This system provides a worry free solution for contaminated concrete that was previously thought to be unrecoverable.

OBS - C is designed to be a primer for subsequent coatings, not a finished flooring system. Once sand has been broadcasted and the coating has cured, OBS - C can receive most floor coverings, coating systems and most cementitious materials.

A SINGLE SOURCE SOLUTION FOR CONTAMINATED CONCRETE



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Most of the Oil Buster removal and containment process is mechanized and only requires a small working crew to complete. This allows the work to be conveniently scheduled, executed in a timely manner and causes little disturbance to the surrounding areas that are adjacent to the treated area. While the oil removal process does create wastewater, it is a virtually dustless and odorless procedure.

1- Core Testing

In order to properly determine the level, depth and type of contamination, core testing must be conducted. AC Tech recommends that short cores (2" deep x 3" dia.) be taken and sent to an independent lab for analysis via Infra-Red Spectroscopy, Ion Chromatography and X-Ray Diffraction. This data will help our technical staff produce precise recommendations.

2- Surface Prep

Prior to applying the OBS system, the concrete must be sound, solid and free of all prior flooring materials, coatings underlayments, adhesives and any material that may act as a bond-breaker. The concrete must be edge-ground and shot-blasted to a CSP of 4 in order to allow for rapid and thorough penetration of the OBS-D.

3- OBS-D Foam

Once the concrete is properly prepared, the surface is then treated with the OBS-D. Using a foaming gun attachment, the OBS-D is mixed with cold water to thoroughly cover the substrate in a "foam carpet". The OBS-D foam is then allowed to soak into the concrete in order to loosen and "float" the contaminates within the slab to the surface.

4- Oil Removal

Using a 4000 - 5000 PSI pressure washer, a 180° F water heater and a floor spinner with vacuum attachment, the OBS-D is forced deep into the concrete and the residue and wastewater is then vacuumed into a suitable container. Depending on the level of contamination, steps 3 & 4 may be repeated as necessary to adequately remove contamination.

5- Final Rinse

Once oil removal is complete, the entire area is rinsed with a pressure washer using hot water. All excess water should be vacuumed into a suitable containment receptacle and disposed of properly. Water must not remain puddled on the surface of the concrete. The coating process should begin immediately after final rinse.

6- OBS-C Coating

OBS-C is mixed per the technical data sheet's instructions and then poured directly onto the newly cleaned, damp concrete substrate. The material is then evenly spread using a notched (16 mils) or flat squeegee and back-rolled with a suitable 3/8" short nap roller until a uniform thickness is achieved.

7- Sand Broadcast

~About 15 minutes after OBS-C application, the fresh coating is broadcast with 50 - 60 mesh washed & dried silica sand to rejection. Once broadcast, the material is allowed to cure for 12 hours, depending on ambient temperature and humidity. After the material has finished curing to accept foot traffic, all excess sand is removed via broom or vacuum.

8- Finished Floor

Once the OBS-C epoxy coating has cured and cleaned of all loose sand, the OBS-C is acceptable for any subsequent flooring systems such as underlayments, resilient flooring, thin-set flooring systems, resinous flooring systems and more. Verify with the flooring manufacture that OBS-C is a suitable substrate for the flooring system to be used.

AC•TECH
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When Performance Counts!

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