

AC•Tech Oil Buster System™ (OBS) is a two step oil removal and containment system for concrete substrates that have become contaminated with oil, chemicals, grease or other hydrocarbons and need to be permanently sealed to allow for a final flooring system to be installed. This system includes a biodegradable, solvent free detergent and a two-component, extremely dense epoxy. The first step is to use **AC•Tech Oil Buster System™** Detergent (OBS-D) and hot, high pressure water to drive the OBS-D deep into the concrete substrate in order to extract or “float” contaminants to the surface for vacuum removal. This process is repeated depending upon contamination levels. The second step, **AC•Tech Oil Buster System™** Coating (OBS-C), a high density, two-component epoxy, is applied to the newly cleaned substrate and is broadcast with silica sand to allow for adhesion for subsequent flooring systems. Once cured, **AC•Tech Oil Buster System™** completely blocks any migration of oils, hydrocarbons and/or other contaminants to the surface. This allows for the installation of finished flooring that otherwise could not be installed over the substrate and prevents harmful oils and contaminants from breaching the surface of the slab, covered by a 15 year material & labor warranty. **AC•Tech Oil Buster System™** is a low VOC system that can be used in populated public application areas or job sites where other trades are present in all types of facilities, such as (but not limited to): manufacturing facilities, food processing plants, automotive facilities, re-purposed structures, commercial kitchens and other areas that may have become contaminated with hydrocarbons.

Features

- Biodegradable & Solvent Free Detergent (OBS-D)
- Single Coat Epoxy (OBS-C)
- Withstands 6 lbs. MVER; (ASTM F 1869)
- Zero VOC Emissions
- Resists Alkalinity to pH of 14
- Non-Destructive Oil Removal Process
- Low Impact to Adjacent Areas
- Contains Remaining Contaminates
- 15 Year Labor & Material Warranty

Technical Data

Mixing Ratio (A:B)	A: 3.5 ; B:1
Density (75° F)	2.20 g/cm3
Volume Solids	97%
Viscosity (75° F)	800 cps
Compressive Strength	11,500 PSI

Flash Point	> 200° F
VOC Content	0.0 Emissions

Packaging

Packaging	OBS-D	2.5 Gallon Units
	OBS-C	3.6 Gallon Units
Color	OBS-D: Clear	
	OBS-C: Gray	
Storage	12 months, in original unopened containers under dry conditions and a temperature of 50°-90° F.	

Details for Application

Pot Life (50° / 75° / 90° F)	1 Hour
Substrate Temperature	50° - 90° F
Storage Temperature	50° - 90° F
Application Humidity Dew Point	N/A
Cure Time / Foot Traffic (75° F)	12 Hours*

*All above values are approximate and may be used as guidelines for specifications. Cure times are approximate and dependent upon ambient temperature and humidity conditions of the job site.

Coverage Rates

Concrete	CSP Value	Spread Rate
New Concrete (LEED NC2009 MRc4 qualified)	3	135 - 150 Sq. Ft. / Gallon
New/Existing Concrete (Non-LEED qualified)	4	75 - 125 Sq. Ft. / Gallon

Coverage rate may vary based on factors such as the concrete matrix, surface porosity and surface profile achieved (ICRI - CSP Value) after floor preparation is completed. Please consult the AC•Tech technical staff on any questions or concerns regarding this spread rate. These spread rates may be altered to suit individual substrate circumstances, requirements, or needs.

1. Concrete Core Testing

The information contained in this Technical Data Sheet is of general nature and is provided in good faith. We accept no liability for errors or omissions. Use and application of this product are out of manufacturer's control and is dependent on substrate load (possible contaminants), methods of preparation and application parameters as well as particularities of individual installations. Our advice, verbal, written or based on test results, does not exempt the applicator from testing the suitability of the products for the intended use.

AC•Tech recommends that substrates to be treated with the Oil Buster System™ (OBS) have short cores (2" Deep x 3" Diameter) be taken from the concrete slab and evaluated by an experienced independent lab prior to application of this product to determine the suitability of the substrate to receive the OBS treatment. Independent lab testing and analysis is conducted in order to positively identify contaminants and deficiencies within the concrete substrate and determine their levels of concentration and depth of penetration. AC•Tech technical staff recommends that the sample cores undergo the following analysis: 1) Infrared Spectroscopy (IR) to determine the hydrocarbon content; 2) Ion Chromatography (IC) to identify water soluble salts and 3) X-Ray Diffraction (XRD-EDXA) to evaluate concrete solids/matrix. Data obtained from this testing will aid AC•Tech technical staff in making a specific recommendation for treating the concrete slab. For a list of laboratories or for any other questions regarding concrete core testing, please consult the AC•Tech technical staff.

2. Surface Preparation

All concrete surfaces where AC•Tech Oil Buster System™ will be applied must be sound, clean, absorptive and free of all adhesives, coatings, curing compounds, concrete sealants, efflorescence, grease, oil, patching materials, previous flooring materials and any other material that may act as a bond breaker or sponsor osmosis. All concrete must comply with ACI 201: Guide To Durable Concrete. All concrete must be mechanically prepared according to ICRI Concrete Surface Profiles (CSP).

New concrete should be machine pan floated to achieve floor tolerances with a ICRI CSP-4 surface or as directed by AC•Tech technical staff. For more information regarding concrete surface profiles, please consult ICRI Technical Guideline No. 03732 or contact AC•Tech technical staff.

Using a diamond grinder, prepare perimeter and corners to the same CSP value as the substrate. Once complete, use a Shot Blasting Machine to prepare application area to appropriate CSP. Grinding is more challenging when trying to achieve appropriate CSP, however, it can be used when shot blasting is not possible. Consult AC•Tech technical staff if grinding and for further information regarding surface preparation.

3. Detergent Application Instructions

Prior to applying the OBS-D product, ensure you have a proper receptacle to dispose of wastewater. Per federal, state and local regulations, this material may be considered hazardous and may require special provisions or disposal parameters. Before applying the Oil Buster System™ Detergent (OBS-D), ensure the materials and substrate are at appropriate temperatures. The OBS-D is applied using a foaming gun attachment and cold, potable water with a 4,000 - 5,000 PSI power washer. Spray OBS-D onto surface of concrete to create a "foam carpet", ensuring all areas are sufficiently covered with foam. After ~50 minutes (once foam has turned from white to clear), the area is cleaned using a floor spinner with a vacuum attachment and a 5,000 PSI pressure washer with 180° F water. Clean all areas treated with the OBS-D. Vacuum up any remaining waste water and store in a proper receptacle for disposal.

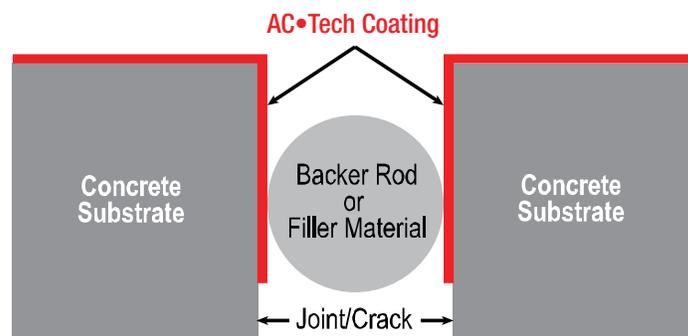
Repeat this process as necessary or as recommended by AC•Tech technical staff. After the initial cleaning, rinse the concrete area with

clean, hot potable water and vacuum up all excess water and store or dispose of properly, leaving no puddles. Immediately after the final rinse, proceed with the following coating. All wastewater will contain any contaminants that were removed from the concrete and should be stored and or disposed of in accordance with all local, state and/or federal regulations and guidelines.

4. Cracks and Joints

Static or non-moving cracks that are 1/64" wide or less can be sealed with the AC•Tech 2170™ FC. Static or non-moving cracks that are between 1/64" and 3/64" wide and in temperature stable environments can be saw-cut/chased and filled by troweling a mixture of AC•Tech 2170™ FC and Cab-o-Sil® or Aerosil®.

Static or non-moving cracks, control cuts and expansion joints that are larger than 3/64" AND any dynamic or moving cracks, control cuts and expansion joints or any concrete substrates that are exposed to temperature fluctuations should be treated as follows: Open crack, control cut or expansion joint to 1/4" width and coat all exposed crack walls with the AC•Tech 2170™ FC during normal installation; Once cured, install a flexible backer rod into void; install a suitable two-component caulk over backer rod and into crack to bring flush with concrete surface and proceed with subsequent installation (see illustration below).



For any questions regarding cracks, please consult AC•Tech technical staff.

5. Coating Application Instructions

The Oil Buster System™ Coating (OBS-C) application must immediately follow the final rinse of the OBS-D application. Do not allow concrete to remain uncoated for extended periods of time or overnight, as any remaining oil in the concrete substrate may migrate to the surface of the concrete. Open both cans. Premix part A for ~1 minute and ensure all material is thoroughly mixed (especially towards the bottom of the can), then pour in part B and mix for 2 - 3 minutes using a 400 RPM drill and a "Jiffy" type mixer. Immediately pour the mixed material onto the prepared surface. OBS-C is applied in one coat: the material is spread using a notched (16 mils) squeegee and back-rolled using a suitable 3/8" short nap roller. After ~15 minutes, the material will develop a "sheen" on the surface. Broadcast 50 - 60 mesh washed and dried silica sand into the fresh coating until rejection. Do not use play sand. Be sure to hand broadcast by releasing sand up into the air, not aggressively down into the coating. Provide adequate ventilation while curing and protect area from water, moisture, dirt, dust and foot traffic. Allow OBS-C to cure at least 12 hours

before allowing foot traffic or placing items on the surface. Once material has cured, be sure to sweep and or vacuum all excess sand. If sand is clean and dried, excess sand may be saved and reused.

6. Finished Flooring Systems

The Oil Buster System™ will accept most finished flooring systems such as terrazzo, resilient flooring and resinous systems. When resilient flooring is being installed, it is recommended that a self-leveling underlayment is installed. If initial moisture testing reveals an MVER of 6 lbs. or more, then the AC•Tech 2170™ Vapor Reduction System must be installed over the cured OBS-C. Follow any and all manufacturer's specifications and instructions when installing any and all flooring systems over the Oil Buster System™. For additional information, consult AC•Tech technical staff.

7. Health and Safety

Always review the MSDS of each product before handling product and obtain appropriate PPE and handling equipment. Do not expose skin, eyes or ingest mixed or unmixed material. When dealing with ingestion, note product CAS numbers and treat accordingly. Store, transport and dispose of in accordance with procedures in product MSDS.

8. First Aid

Eye Contact: Flush immediately with clean water and seek medical attention.

Skin Contact: Wash affected areas with soap and fresh water. If a negative skin reaction is recurring, keep individual away and do not come into contact with material.

9. Warranties

The Oil Buster System™ provides a fifteen (15) year labor and materials warranty when the product is applied by an AC•Tech approved applicator. Any product applied by an unapproved applicator is not covered by any warranty whatsoever. See limited warranty below.

See warranty next page »

10. Emergency Response

Infotrac: (800) 535-5053

Contract # 104212

***FOR COMMERCIAL USE ONLY: KEEP OUT OF REACH OF CHILDREN & PERSONNEL NOT TRAINED IN ITS USAGE
READ SDS & SAFETY PRECAUTION PRIOR TO USE.***

PROJECT: _____
ADDRESS: _____
AC•TECH SYSTEM USED: _____
PROJECT COMPLETE DATE: _____
SPREAD RATE APPLIED: _____
FINAL FLOORCOVER SYSTEM: _____

REP / DISTRIBUTOR: _____
FLOOR SIZE: _____
DATE APPLIED: _____
APPLICATOR: _____
GALLONS USED: _____
DATE APPLIED: _____

AC•Tech | Allied Construction Technologies, Inc. will warrant for a period of fifteen (15) years the listed AC•Tech Oil Buster System™ against material defects. In addition, AC•Tech will warrant for performance the oil removal and subsequent sealing of the substrate as shown in the AC•Tech product data sheets and printed literature, provided that all the recommended floor preparation, mixing, application instructions, and any other technical information stipulated in AC•Tech literature are strictly followed. The Oil Buster System™ has a water vapor transmission threshold of 6 lbs (ASTM F 1869) if this threshold is exceeded then a vapor reducing system such as the AC•Tech 2170™ Moisture Reduction product must be applied over the cured Oil Buster System™ treatment. This limited warranty covers against performance failure due to the migration of any oils or hydrocarbons through the applied Oil Buster System™ only and includes the following:

1. AC•Tech approved adhesives
2. AC•Tech approved cementitious underlayments
3. Floor covering systems (including epoxy, polyurethane and MMA systems)
4. All labor charges involved in removing and replacing flooring in the area under warranty

Should the AC•Tech Oil Buster System™ fail due to oil or hydrocarbon migration the failed flooring composite will be replaced in the areas of failure at no cost to the owner.

This limited warranty is further subject to the following conditions:

1. AC•Tech products must be applied as per written product application specifications on "structurally sound" areas in which the concrete meets acceptable industry standards as defined in ACI Committee 201 Report, "Guide to Durable Concrete." If the areas to which the products are applied now or in the future fail to meet these standards, the aforementioned warranty shall be void.
2. The foregoing warranty shall be void if a cohesive substrate failure in the concrete surface occurs resulting in a breach or delamination of the AC•Tech Oil Buster System™ and/or alkaline silica reaction (ASR) and related conditions causing the AC Tech Oil Buster System™ material to fail.
3. The aforementioned warranty shall be void if the products are applied to improper substrates such as cracks, expansion joints and surface honeycombs or in areas not properly prepared per AC•Tech's surface preparation requirements, or surface bond in-

hibiting contaminants are present preventing proper performance/adhesion of the AC•Tech products.

4. The foregoing warranty shall be void if the AC•Tech required guidelines for material coverage/surface preparation are not strictly followed (see product data sheets, specifications, and written literature).
5. The foregoing warranty shall be void in those areas where there is oil migration to the surface due to a breach in the cured coating system caused by cracks in the substrate and therefore in the cured Oil Buster System™ coating that develop after the application of the AC•Tech products, this may be due to structural deficiencies, surface impacts and substrate cracking caused by thermal or geological movements. This warranty is also void in those areas where there is any leakage due to active liquid water incursion.
6. The foregoing warranty shall be void if the AC•Tech Oil Buster System™ products have been applied by an applicator not approved by AC•Tech.

Subject to the foregoing, the sole and exclusive remedy due to a breach of this warranty shall be expressly limited to the repair of defective areas due to the failure of the AC•Tech products, and shall expressly exclude consequential damages including, but not limited to; damages to structure or to contents of structures. This warranty will not go into effect until all invoices/accounts are paid in full. The beneficiary of the warranty must provide AC•Tech, 3302 Croft Street, Norfolk, VA 23513, a written notice within thirty, (30) days of the discovery of a breach of this warranty in order to assert its right to any repairs covered by this warranty.

AC•Tech reserves the right to physically inspect the site and obtain samples from the job installation and examine any and all forensic testing documents before any determination is made as to the validity of any claim. AC•Tech reserves the right to reasonably schedule work and utilize techniques and products as necessary to complete repairs, and shall not be liable for any materials or labor ordered by any entity other than AC•Tech.

This agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia, and all parties consent to jurisdiction in the courts located in the City of Norfolk, Virginia and agree that no other courts shall be an appropriate venue for any disputes arising out of the relationship between AC•Tech and the customer.

PROJECT NAME: _____
PROJECT SIZE: _____
EST. START DATE: _____
AC•TECH PRODUCT(S) SPECIFIED: _____

1. OVERVIEW

Successful projects depend on accurate and detailed information. Most contaminants that this treatment removes are bond breakers to most surface applied flooring systems. The purpose of this procedure is to make the substrate suitable to receive subsequent flooring systems that are warranted by AC•Tech and the flooring manufacturer.

The Pre-Project section (Sections 2-8 below) must be completed and returned to AC•Tech for review by technical staff prior to product application. AC•Tech materials applied prior to review and approval by technical staff may not qualify for a warranty.

The Post-Project section (Sections 9-11 below) should be completed by an Approved Applicator that was on-site and observed installation. A completed Project Survey must be submitted upon application completion and prior to submitting a warranty request form. Warranties will not be issued until a completed Project Survey is submitted to AC•Tech.

This document must be completed in its entirety (use "unknown" or "n/a" for fields that are to be left empty) and returned to AC•Tech Administrative Staff upon job completion in order to obtain a full material and labor warranty from AC•Tech.

PRE-PROJECT SURVEY

2. GENERAL INFORMATION

(Check all that apply)

- New Construction Industrial Commercial Renovation
 Residential Private Public Federal
 Other: _____

Project Name: _____
Project Address: _____
City: _____ **State:** _____ **Zip:** _____
Facility Contact: _____
Title: _____
Phone: _____
Fax: _____

Mobile: _____
Email: _____
Owner: _____
Contact: _____
Title: _____
Address: _____

City: _____
State: _____ **Zip:** _____
Phone: _____
Fax: _____
Mobile: _____
Email: _____

General Contractor: _____

Project Manager: _____
Title: _____
Address: _____
City: _____
State: _____ **Zip:** _____
Phone: _____
Fax: _____
Mobile: _____
Email: _____

Flooring Contractor: _____
Address: _____
City: _____
State: _____ **Zip:** _____
Contact: _____
Title: _____
Phone: _____
Fax: _____
Mobile: _____
Email: _____

AC•Tech-Approved? Y N

Trained By: _____
Size of Floor (square feet): _____

3. CORE TESTING (Not Required)

The purpose of obtaining a core test is to identify any constituents that may be hazardous or that may require special remediation such as (but not limited to): PCB's, Asbestos, etc. If these or any like substances are suspected in the concrete, AC•Tech recommends performing core testing to identify those constituents that may require special removal procedures.

Core Testing Protocols:

Take 2" deep X 3" in diameter "short core" samples.

The first 3 test protocols make up usual battery of testing required to obtain a data set for proper analysis. Petrographic Analysis is not usually performed unless ASR is suspected.

- a. Ion Chromatography (IC): Quantify any water soluble salts
- b. Infra-Red Spectroscopy (IR): Identify possible organic load
- c. Energy Dispersive X – Ray Analysis (EDXA): Concrete makeup
- d. Petrographic Analysis (Thin-Slice): Identifying/confirming ASR (Alkali-Silica- Reactivity)

Number of Cores Taken: _____

Bagged and Marked? Y N

Lab Cores Sent to: _____

Lab Contact: _____

Phone: _____

Lab Job No: _____

Tests Performed: 1 2 3 4 Other: _____

*Please instruct lab to send copies of all testing and test results to the AC•Tech Technical Staff for data review and analysis prior to the start of any coatings application
Phone: (757) 855-5100 • Fax: (757) 855-5108 • Email: mkrauss@actechperforms.com*

4. PRE APPLICATION

Age of Concrete: _____

Thickness: _____

Condition of Concrete: Good Fair Poor

Other: _____

Type: Slab on Grade Elevated Lt-Wt

Other: _____

Existing Cracks: Y N Approx. Linear Ft: _____

Cracks: Moving Non-Moving Control Cuts Expansion
 Spider

Previous Flooring? None Resilient Epoxy _____

Other: _____

Flooring Type: _____

Blisters: Y N Size: _____

Other Manifestations: Joints Lifted Tiles Brown-Staining

Other _____

Expansion Joints Cleaned Out: Y N

All Joints Cleaned: Y N

Issues: _____

Is Moisture Testing Going to be performed: Y N

ASTM F 1869 Number of Kits _____ High Reading _____

ASTM F 2170 Number of Probes _____ High Reading _____

Were moisture readings over 6 pounds or 85% RH: Y N

Issues: _____

Is the AC•Tech 2170™ moisture mitigation system recommended?

Y N

Sieve size of broadcast sand recommended? _____

Recommended mil thickness for moisture system? _____

Will There Be an Underlayment Installed or will the floor be directly adhered to the cured OBS-C? _____

Additional Notes: _____

5. EQUIPMENT

Under most conditions of oil/hydrocarbon contamination two applications of the OBS-D are sufficient to remove surface contamination. Consult with the AC•Tech technical staff for indications of heavy or light contamination in any given slab.

A. For Heavy Contamination (such as but not limited to): heavy machinery garages, machine shops, airplane hangers, industrial buildings, etc. AC•Tech Technical Staff will assist in determining equipment necessary for each individual project. In severe cases the detergent may be applied to the deck, spread out with a broom, and immediately covered with plastic sheeting to allow soaking without drying overnight.

Recommended Cleaning Equipment:

- 3500-5000 psi power washer
- Water Heater (180 °F)
- Floor Spinner
- Assortment of Hand Wands and Power Nozzles
- Wet Vacuums - Walk Behind Vacuum
- Assorted Hand Tools, Squeegees
- Vessels for Containing Waste Water if Necessary

B. Light Contamination (such as but not limited to): light industrial, commercial kitchens, soybean stripper, kennels, food processing, and similar lightly contaminated substrates. Again consult AC•Tech Technical Staff when determining what equipment is best suited for each individual for project.

Recommended Cleaning Equipment for Light Contamination:

- Walk Behind Floor Scrubber (Such as a Tennant machine)
- Assortment of Hand Wands and Power Nozzles
- Wet Vacuums
- Assorted Hand Tools, Squeegees

6. PRIOR TO START

- Was all movable, water sensitive machinery removed?
- All water sensitive non-movable machinery covered?
- Any additional water sensitive / electrical equipment identified?
- Was slab properly prepared by shotblasting or grinding?
- Was all edge grinding performed correctly?
- All shot and debris from shotblasting removed?
- Proper cold water supply (Do Not use hot water as main supply)?
- In-house wastewater treatment or management system available?
- Electrical and lighting available?
- Proper ventilation?
- Vessels for containing waste water if necessary?
- Proper protection for material storage of epoxy coating and sand (Do not store epoxy coating in freezing temperatures or in direct sunlight- store broadcast sand in dry location)?
- Crew trained on proper procedures?
- Other _____

7. TREATMENT PROCEDURES

- Was entire floor sufficiently cleaned with OBS-D?
- Were the areas under non-movable machinery properly cleaned?
- Were corners and column bases cleaned properly?
- Were control joints (if visible) and expansion joints cleaned out?

8. COATING PROCEDURES

- Was proper mixing station set up?
- Was mixing crew thoroughly trained on mixing procedures?
- Prior to Adding B Component, ensure heavy elements on the bottom of the A Component can are thoroughly mixed
- Have a mixing crew ready to carry heavy cans; cart-wagon?
- Have proper size rollers and squeegees ready to go?
- Ensure coating is applied at a uniform thickness of 15-16 mils
- Allow coating to cure minimum 15 minutes to sand broadcast
- Ensure proper mesh size, and that sand is washed and dried (DO NOT USE PLAY SAND)

8. POST APPLICATION

- Allow Full 12 hour cure (dependent on temperature and humidity)
- Sweep up all loose sand especially in corners and behind machines
- If sand is clean and dry it may be reused if stored properly
- Deck is now ready for underlayment or final flooring

- Honor all expansion joints through coating system

9. Notes

This concludes the pre-project section. All information provided above is accurate and true to the best of the signer's knowledge. Any changes, deviations or errors in the above information or requested information must be listed on a separate sheet and accompany this document. Any information discovered to be falsified or purposely misrepresented at any time may result in the cancellation of any warranty provided or promised for this project or voiding of any warranties supplied by AC•Tech for any of its products involved in this project.

POST- APPLICATION CHECKLIST

10. SMALL PROJECT / SMALL AREA CLEANING

- Was the deck pre-wetted?
- Was the detergent allowed at least an hour to penetrate the deck?
- Was the deck kept wet?
- Was plastic sheeting used overnight?
- Was the deck thoroughly scrubbed either with a broom or a walk-behind scrubber (such as a Tennant machine)?
- Was the deck thoroughly rinsed after scrubbing with clean water?
- Was the deck vacuumed free of all standing water/puddles?
- Were all mixing and coating parameters stated above followed?

NOTE: On small projects or lightly contaminated substrates, suitable scrubbing and cleaning may be accomplished by a walk-behind machine such as a Tennant or like cleaning vehicle.

Notes: _____

On Site Material Storage Acceptable: Y N

Issues: _____

Material Used: AC•Tech OBS-C / OBS-D ; _____

Air Temp: _____ Dew Pt: _____

Temperature At Time of Application: Rising Falling Steady

Spread Rate: _____

I acknowledge that the provided information is accurate and true to the best of my knowledge:

Date: _____

Signature of Approved Applicator: _____
