



Bioscience, Inc
Environmental Products and Services

AIRPORT HANGAR FLOOR CLEANING

CASE STUDY #BSE084

SUBJECT	Removing oil stains from airport hangar floors prior to recoating the floors with new epoxy paint.
PRODUCT APPLIED	MICROCAT®-SMPL Hydrocarbon Cleaner/Degrader (liquid formula) MICROCAT®-XR Hydrocarbon Degrading Bioformula (dry formula)
OBJECTIVE OF TREATMENT	Effectively remove the oil stains on the concrete floors and resultant treat hydrocarbon water mixtures in an environmentally safe and responsible way – as “green” as possible - in preparation for painting.
SITE HISTORY	In hangars where airplanes are kept, dripping oil and other hydrocarbons make stains on the concrete floors. This not only includes motor oil, but also on occasion diesel fuel, hydraulic fluid and gasoline. These residuals are difficult to remove, and they should not be removed and simply discharged directly to the environment or into the sewer system without treatment.
METHODOLOGY	<ol style="list-style-type: none">1.) MICROCAT®-SMPL Hydrocarbon Cleaner/Degrader is diluted and sprayed over the entire floor surface2.) Then MICROCAT®-XR Hydrocarbon Degrader is mixed at a ratio of 25 pounds (11.3 kg) to 110 gallons (0.42 m³) of water, and then scrubbed into the floor surface using a broom. The floor is kept wet for 24-48 hours by misting from a water hose. The floor is then hosed off and the mixture is discharged to the sewer.3.) The floor is cleaned with a peroxide solution in order to eliminate biological activity and allowed to dry.4.) The floor is now ready for epoxy paint application.

RESULTS

MICROCAT®-SMPL Hydrocarbon Cleaner/Degrader and MICROCAT®-XR Hydrocarbon Degrader did an excellent job of removing dirt, oil and grease from the concrete floor in preparation for application of epoxy coating.

CONCLUSIONS

MICROCAT®-SMPL Hydrocarbon Cleaner/Degrader and MICROCAT®-XR Hydrocarbon Degrader can be used individually or in combination to remove dirt, oil, grease and other hydrocarbon stains from concrete surface and floors in preparation for cleaning.

RELATED MICROCAT® PRODUCTS

XRC	Oil spill absorber and degrader
XRCP	High capacity oil spill absorber and degrader
SK	Oil spill absorber and degrader
BK-A	A natural, biodegradable organic dispersant used in combination with MICROCAT®-BK-B
BK-B	Degrades and bioremediates hydrocarbon contamination in liquids and on any solid or semi-solid surface
XBS	Bioformula for bioremediation of contaminated soils
HX	Specialized microbes and activated carbon for reduction of hydrocarbons
Biobag	Stormwater Pond surface cleaner

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