

# CASE

Medical marijuana sales are permitted by 29 US states. Much of the medical edibles are derived from concentrated cannabis oil which is extracted in a number of facilities. On the other hand, CBD hemp oil is made from high-CBD, low-THC hemp, unlike medical marijuana products, which are usually made from plants with high concentrations of psychoactive tetrahydrocannabinol (THC). Hemp contains only trace amounts of THC, as such hemp oil products are considered non-psychoactive.

The plant, subject to this case study, manufactures high concentration THC oil in Denver, Colorado. As it ends up being consumed by humans, operators of such facilities are anxious to ensure their premises meet human food hygiene standards and herein lies the problem.

## Problem

Many common protective coatings still contain Volatile Organic Compounds as well as solvents. Operators want to entirely eliminate the risk of contamination. They particularly want to meet federal Food and Drug Administration standards before such regulations are imposed upon them. Currently these operations only fall under state rules. Should they not meet federal standards when required to, then they would almost certainly be quickly shut down.

Even where some coatings claim to have zero VOCs, many often contain them at a very low level that the regulators permit to be labelled zero. Aside from the purity needs, the protective coatings must also perform, particularly if there are strict hygiene protocols that require regular washing of surfaces, often with powerful sanitizer chemical products.

## Solution

Castagra's Ecodur already has a track record of application in frozen food plants (ADM, Cargill, General Mills) and grow ops in Arizona, but, most importantly, it is NSF-61 rated for contact with drinking water and hence, it is deemed appropriate for use in surfaces where human food is prepared and or stored.

Ecodur is VOC-free, BP-free, entirely solvent free, including clean-up if it has been sprayed as the spray-head only requires a simple router tool to clean it. It has double the adhesion on concrete flooring compared to most conventional coatings. Where it in contact with bare wood, it will even bond with it at the molecular level.

Ecodur's extremely extensive use through the fracking industry coating many hundreds of oil and production water tanks, as well as use in the



water and wastewater industry, has shown how robust it is when exposed to a wide variety of corrosive chemicals.

The veggie-plastic coating, which is made from castor oil and gypsum, is completely non-toxic and also has the ability to re-bond to original Ecodur surfaces, should repairs be required at some in the future.

## Application Results

After standard preparation of the surfaces to ensure they were clean, dry and free from any original coatings, the Ecodur was manually applied to a depth of 30 mils. The chosen color was grey. Full cure was achieved within 24 hours at which point, following a final inspection, the coating site was declared fit for use. The client subsequently expressed complete satisfaction with having a coating protection that now meets the highest standards that can be demanded for food facilities.

Ecodur is VOC-free, BP-free



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