

TECH

Unique combinations of natural oils, fibers and minerals yield outstanding durable and sustainable green products.

Castagra's industrial coatings and building materials are made from a unique combination of living organic oils, naturally occurring minerals and agricultural fibers that are combined using state of the art technologies and processes into durable products with superior properties to competing ones made from petroleum.

A tale of two oils. On the one hand, we have traditional natural oils such as tung, linseed and castor that have been developed and used for centuries to make fine finishes, lubricants and many other useful products. At their simplest, such oils are direct products of sunlight, soil, air and water. These oils are squeezed out from plants that produce them through natural photosynthesis and other cellular processes. There is nothing "crude" about oils produced from these living plants. The main human inputs are careful farming, wise crop engineering, and a sensible combination of mechanical and manual agricultural harvesting and processing techniques. Such natural oils can easily be grown, harvested and manufactured into products close to where the consumers are located – such as here in America. There are no limits on the supply and the outputs from the process are generally positive ones.

On the other hand, we have for about a century developed oils from petroleum. In this case, the starting material is a mass of dead and largely rotted organic matter that has been buried for a very long time. This is crude oil as we have come to know it and takes enormous energy and effort to extract, crack, refine and chemically recombine into the various useful products that we are familiar with, such as fuels, lubricants, plastics and many industrial chemicals. There are many human inputs needed and the massive global petrochemical industry has arisen in conjunction with the substantial political, industrial and military infrastructures required to find, extract, transport, process,



market and control "crude" oil and the products made from it. There are severe limits on supply and many of the outputs from the process are negative ones.

Castagra has taken elements from the past, and combined them with modern technology and know-how to develop a wide range of sustainable products that can continue to evolve whether or not the petrochemical industry continues to exist for another century. It should come as no surprise that products made from our natural, whole, ingredients have superior technical properties compared to similar products produced from crude oil. And we do it right here at home.

Natural oils can easily be grown, harvested and manufactured