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CMA Asphalt Mixture CATALYST

Our technology, Catalyst Asphalt Mix CAM[®], is a brand new product which after being added into conventional asphalt mixtures (i.e. asphalt cement and aggregates) it maintains the mixture fluidity when it cools down for an indefinite period of time.

Essentially, it preserves the asphalt mix physical chemical and mechanical properties, in addition to this it improves stability and fluidity of the mixture while keeping up with international standards.



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The resulting mixture, called “*Catalyzed Asphalt Mixture*” in order to difference it from “*Conventional Asphalt Mixture*”, shows at ambient temperature (Ref: 27°C), and even at 0 °C or less, a loose texture, manageable and workable, which when compacted at 130 °C, has improved stability and range of flow values when assessed with International Standards (Technical Statement), just as stated by the Soil and Asphalt Mechanics Laboratory from the Civil Engineering department of Los Andes University, Mérida, Venezuela (Ref. M02-N11), where technical tests were performed for over 5 months.



Adding the **Asphalt Mixture Catalizer®** to the conventional asphalt mixture, allows as referred, the possibility of storing and/or transporting it to anywhere, no matter thr distance or time it takes, canned or in bulk.



Once the **CATALYZED Asphalt Mixture** reaches the paving area at ambient temperature, it must be put through an indirect heating process, using a mobile heating machine, making the **CATALYZED Asphalt Mixture** , manageable, loose and workable just as conventional asphalt mixture recently produced at the Asphalt Plant; in adequate conditions to be used for high penetration paving on streets, roads and Highways, or whatever other use it could have.

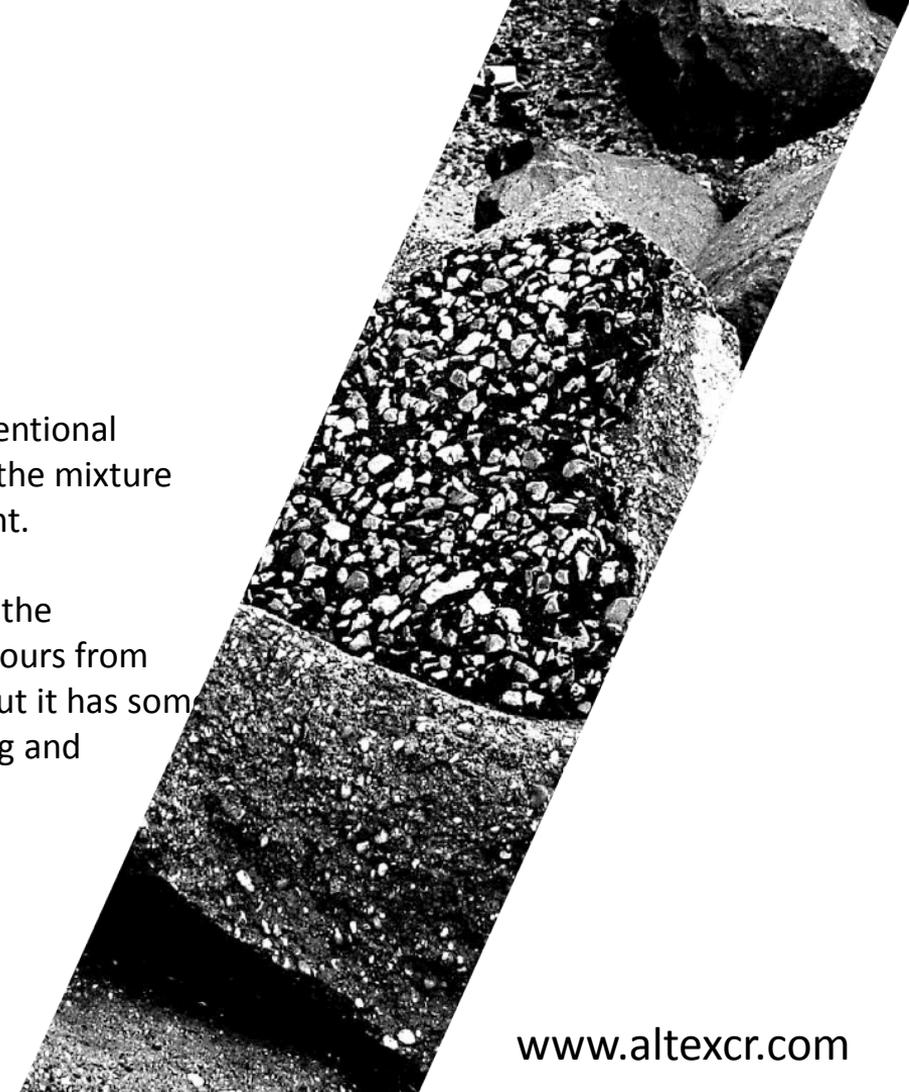
It is worth it to mention that adding the **Asphalt Mixture Catalizer®** to the conventional asphalt mixture does not significantly increase the cost of the resulting Asphalt Mixture.



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Through out the world, the time and distance to transport conventional asphalt mixture, is inversely propotional to the quick cooling of the mixture from its initial temperature when coming out of the asphalt plant.

In attempts to intriduce to the market a product that could give the conventional asphalt mixture the ability of not perishing at 6-8 hours from produced at the asphalt plant, “Cold Asphalt” was developed, but it has some major limitations; hence it is only used for low traffic road paving and patching.





Assets and cost optimization in the Pavimenting Process

One of the advantages that will undoubtedly change in a short period of time the asphalt business worldwide, is the fact that Asphalt Companies will optimize the number of plants; since it will be much more efficient to produce “**Catalyzed Asphalt Mixture**” in a minimal number of plants along the whole year of nonstop production (depending on the volume of tons required by their clients); than to maintain many plants on hold with to produce just when it is required; reducing this way the super high fixed costs of maintenance due to underusage of all those assets.

In addition to the fact that the energy costs (heating) for asphalt cement (to prepare asphalt mixture) are minimized and in some cases completely eliminated, since that heating is not necessary when using our **Asphalt Mixture Catalizer**®



With this Technology, **Asphalt Mixture Catalizer®** , The PERISHABLE Conventional asphalt mixture, becomes NONPERISHABLE Catalized Asphalt Mixture, with strategic business advantages, among others, of becoming an exportable product, and capable of being stored under open skies for more than 6 months, Which will brake paradigms in the Asphalt Business worldwide.



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