



- 1) What is ZycoTherm?
- 2) What is the typical temperature reduction that can be achieved by using ZycoTherm?
- 3) Does ZycoTherm improve Tensile Strength Ratio (TSR)?
- 4) How is ZycoTherm different from other WMA technologies?
- 5) Is ZycoTherm compatible with binders modified with Poly Phosphoric Acid?
- 6) Does ZycoTherm have any offensive odor?
- 7) Can ZycoTherm be used in all types of modified and unmodified binders?
- 8) Is ZycoTherm odor & corrosion free?
- 9) How is ZycoTherm incorporated into the Asphalt Binder?
- 10) What is the shelf life of an unopened ZycoTherm container?
- 11) Is ZycoTherm flammable ?

### **1. What is ZycoTherm?**

ZycoTherm is an odorfree, chemical warm-mix additive(WMA) that has been engineered to provide significantly improved benefits over current WMA technologies by offering lower production and compaction temperatures, while simultaneously enhancing the moisture resistance of pavements by serving as an anti-strip.

### **2. What is the typical temperature reduction that can be achieved by using ZycoTherm?**

Typical asphalt mixes are produced at 300-325°F and compacted at 250–270°F. Mixes that have been modified with ZycoTherm can be produced at 240-260°F and compacted at 170-200°F. Overall, ZycoTherm offers temperature reductions of 60-90°F depending on the properties of the mix.

### **3. Does ZycoTherm improve Tensile Strength Ratio (TSR)?**

Yes. ZycoTherm has a built-in anti-strip mechanism that allows it to dually function as an anti-strip as well as a warm-mix additive.

### **4. How is ZycoTherm different from other WMA technologies?**

Unlike typical chemical WMA additives that are based on amines, ZycoTherm is a silane-based technology that is more efficient and user-friendly.

## **5. Is ZycoTherm compatible with binders modified with Poly Phosphoric Acid?**

Many chemical WMA additives are not compatible with binders modified with polyphosphoric acid (PPA). ZycoTherm is not only compatible with such modified binders, it allows for improved workability with PPA modified binders that are generally stiff.

## **6. Does ZycoTherm have any offensive odor?**

ZycoTherm has been noted to serve as an excellent odor control agent (even for hot-mix asphalt), thereby reducing the smell of asphalt on the job site.

## **7. Can ZycoTherm be used in all types of modified and unmodified binders?**

Yes. ZycoTherm is universally compatible with all types of modified as well as unmodified binders which includes PMB and CRMB modified binders. It does not affect binder grading or change any other binder properties.

## **8. Is ZycoTherm odor & corrosion free?**

Yes, ZycoTherm is odor and corrosion free. It can be handled much more easily than typical chemical additives that are amine-based.

## **9. How is ZycoTherm incorporated into the Asphalt Binder?**

There are 3 main ways by which ZycoTherm can be incorporated into the mix.

- Terminal Addition: ZycoTherm can be added directly into the heated binder at the terminal. It is stable in molten asphalt binder for 15-30 days.
- Tank Addition: It can also be added during the time of loading into the plant storage tank. In this case, mixing of ZycoTherm can be done using a recirculation pump.
- In Line Mixing: ZycoTherm can be metered into asphalt binder just before it is sprayed over heated aggregates.

## **10. What is the shelf life of an unopened ZycoTherm container?**

ZycoTherm is a very stable composition. It can be used up to 24 months after date of manufacture.

## **11. Is ZycoTherm flammable ?**

No. ZycoTherm is non-flammable.

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