

COATING AID. WORKABILITY AID. COMPACTION AID. BLACKER MIXES

ZycoTherm nanotechnology substantially improves coating of asphalt binder on aggregates, ensures consistent and higher compaction and eliminates stripping for making durable asphalt pavements over the service life.

ZYCOTHERM BENEFITS

- **Improves coating upto 120 °C**
Wets & spreads better even at lower bitumen content to give blacker looking mix
- **Reduces stickiness on trucks and compaction roller upto 90 °C**
Captures sticky asphaltenes in nano cages of ZycoTherm for improved free flow and reduced stickiness to trucks or paver and compaction roller
- **Improves field compaction upto 90 °C**
Uniform flow ensures consistent densities at same number of passes
- **Eliminates stripping**
Residual water in aggregate at lower mix temperature helps to promote reactivity with aggregate to withstand six hours boil test with 95% retained coating
- **Eliminates odor**
Captures all odorous compounds in nano cages of ZycoTherm
- **Reduces fuel consumption**
Lowers mixing temperature by 35 °C, saves fuel by 20-25% OR Helps in longer hauls OR Allows paving in cold conditions 0–5 °C
- **Stable to storage**
Stable for 15 days and more, suitable for terminal blending



- Improves TSR values 80 – 90 °C

- Melts and mixes hardened asphalt

Improves melting and mixing of hardened asphalt from RAP / RAS to reduce / eliminate raveling

- Marinates aggregates as alternative to lime

ZycoTherm dissolved in water (ZycoTherm 1 kg : Water 400 liters) is sprayed on aggregates (5% by weight of aggregates) and left to dry before processing for asphalt mixes

DOSAGE

- Unmodified asphalt binders at 0.1% by weight of asphalt binder
- Modified binders PMB / CRMB, RAP / RAS mixes at 0.125 - 0.15 % by weight of asphalt binder

STORAGE AND SHELF LIFE

ZycoTherm should be stored between 5 – 45 °C (41 – 113 °F) in a shaded, dry area away from sunlight, heat, ignition, source of sparks, rain and standing water. The container lid should be securely fastened every time it is used. Its shelf life is 24 months.

Wyoming, USA



ZYDEX : SUSTAINABILITY THROUGH INNOVATION

ZycoTherm / Zycosoil
Warm / Hot Mix

Nanotac
Tack Coat

Terraprime
Prime Coat

Terrasil
Soil Waterproofing

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