

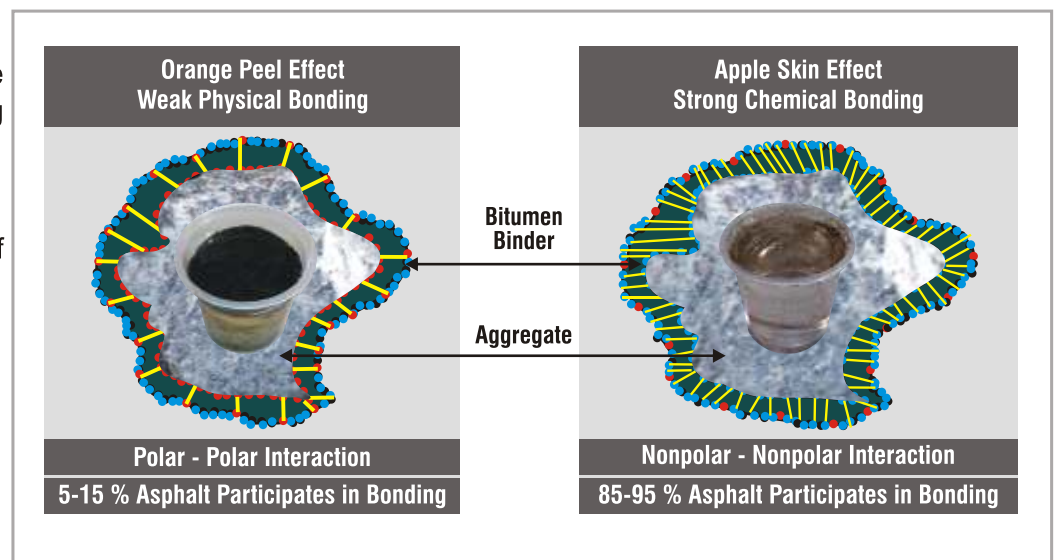
CHEMICAL BONDING • COMPLETE COATING • CONSISTENT COMPACTION

ZycoTherm is an advance generation silane additive with multiple benefits. ZycoTherm gives chemical bonding for extended moisture resistance, enables 100% coating of bitumen on aggregates and allows wider temperature zone for compaction, resulting in a pavement with extended life cycle.

CHEMICAL BONDING

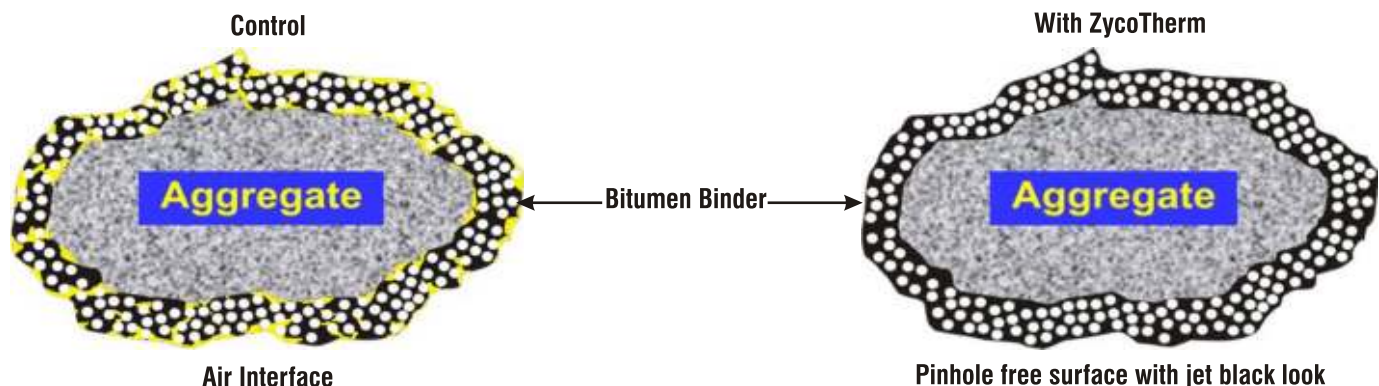
Bitumen binder sprayed & coated over water loving aggregates forms weak physical bonds which fails in moist conditions and results in stripping and potholes

- ZycoTherm chemically modifies the aggregate surface from water loving to bitumen loving
- Gives strong permanent bonding of bitumen on the aggregates
- Extended life confirmed by extending current specifications



COMPLETE COATING

ZycoTherm modified bitumen achieves complete coating faster due to improved wetting. It also helps to saturate the finest pores & crevices of aggregates surface. Fines are completely coated in the mixing time of 45-60 seconds and ensure a pinhole free surface

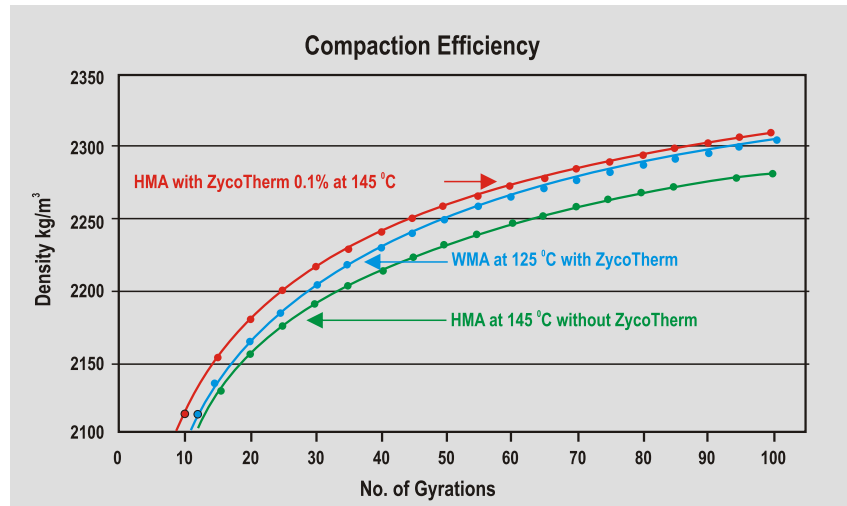


Reduces stripping potential & oxidative effect at the aggregate – bitumen interface due to elimination of air interface at the aggregate surface

Improves pavement fatigue resistance due to chemical bonding and complete mechanical impregnation of bitumen into the finest pores of aggregate surface

CONSISTENT COMPACTION

- **Cooler Hot Mixes**, as it lowers mixing temperature by 10 - 15 °C
- **Warm Mix Benefit**, as it lowers compaction temperature by 35 - 40 °C
- **Eliminates Variability of Compaction Density** allows compaction upto 90 – 100 °C



Better compaction for same compactive effort

ADVANTAGES

Paving

- Reduced odor
- 💰 Improved workability and compaction ability
- 💰 Improved mix flow & Cleaner equipments
- Eliminates segregation of mixes
- Dark black look
- 💰 Extended paving season

Manufacturing

- Reduced odor
- 💰 Cleaner tanks, coils & elevators
- 💰 Cleaner flights of the mixing chamber
- 💰 Lower mix temperature & fuel economy
- 💰 Reduced wear & tear of plant
- 💰 Higher RAP / RAS
- Reduced emission & bitumen mass loss

Health & Environment

- Health Rating of 1
- TSCA Registered
- Pre-registered for REACH
- Substantial Odor Reduction
- Non corrosive

STORAGE & 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. It's shelf life is 24 months.

DISCLAIMER

Whilst the information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

ZYDEX : SUSTAINABILITY THROUGH INNOVATION

ZycoTherm / Zycosoil
Warm / Cool Hot Mix

Nanotac
Tack Coat / Cold Mix

Terraprime
Prime Coat

Terrasil
Soil Stabilization / Waterproofing



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