NEWTLAC[®] 5500



Eco-friendly & Highly Durable Asphalt Modifier

What is NEWTLAC?

NEWTLAC is an engineered environmentally friendly polymeric asphalt additive containing approximately 40% waste plastic (recycled PET plastic). The recycled plastic is chemically reacted onto the polymer backbone structure. NEWTLAC can be pre-blended to the asphalt binder at the terminal (wet-process) or added to the asphalt mix at the HMA plant (dry-mix process). While NEWTLAC does not affect the original PG grade asphalt, it provides added value by improving the fuel resistance and resistance to deformation of the asphalt pavement. NEWTLAC is recommended for truck stops and commercial parking lots by expanding the pavement life cycle and reducing repair and maintenance costs.

Upcycling of Waste Plastics for Asphalt Modifier

Waste Plastics



Functionalized Polyester Resin (Reacted with 40% Recycled PET)



Chemical Reaction



NEWTLAC

Long Lasting Pavement



1,400 PET Bottles per 100m²

Durability of Pavement with NEWTLAC

Anti-Rutting Performance : Wheel Tracking Test

Without NEWTLAC

Conventional Asphalt Pavement (PG grade)



With **NEWTLAC**



*Deformation after 1 hour evaluation

Asphalt Pavement with NEWTLAC is Long-Life

Benefits of NEWTLAC



Kao Corporation Chemical Business, Global, Eco Infrastructure Web site : <u>https://chemical.kao.com/global/infrastructure/</u>

Kao Kirei–Making Life Beautiful