

PUG MIX/PUG PAVING

Open Graded Cold Mix

Pug mix, pug paving or open graded cold mix is a custom blend of coarse and fine aggregate, combined with an asphalt emulsion, which is either chemically modified (CM) or a high float emulsion (HFE). Pug mix is an environmental and economical alternative to hot mix asphalt (HMA).



THE PROCESS

Pug mix is produced on a portable pug mill close to or on the job site. The mix provides increased smoothness, stability and durability for typical cold mix applications and can be laid with conventional paving equipment. Primarily used on low-volume rural and secondary roads, it is ideal for road bases, offering a durable, water-resistant layer for new pavement or surface rehabilitation projects.

BENEFITS

- Can be stockpiled for 1-2 years due to moisture resistance
- 20-50% less expensive than HMA
- Environmentally friendly with CM due to no runoff or drain-down problems, no aggregate heating and reduced trucking
- More stable than typical dense graded cold mix due to coarse aggregate skeleton
- Mix maintains workability and is a flexible paving system for low volume roads

ISSUES ADDRESSED

- Guards against cracking
- Drainage and erosion control
- Reduced energy use and emissions

MIX COMPONENTS

- Emulsion/Bituminous Material: CM and HFE have high float characteristics resulting in improved adhesion to the aggregate. Increased film thickness helps the asphalt stay on the aggregate in the pavement
 - Aggregate: Locally available crushed aggregates. Important characteristics include shape, strength, texture, gradation and absorption
- or*
- Recycled Asphalt Pavement (RAP)