

# PUG MIX

## Asphalt Emulsion Paving Mix

Pug 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 offers a durable, water-resistant layer for new pavement or surface rehabilitation projects.

### BENEFITS

- Can be stockpiled for up to a year
- 20-50% less expensive than HMA
- Environmentally friendly, no runoff or drain-down problems, no aggregate heating and reduced trucking
- More stable than typical dense graded cold mix due to film thickness
- Mix maintains workability and is a flexible paving system

### 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

### ISSUES ADDRESSED

- Guards against cracking
- Reduced energy use and emissions