

# TOOLBOX

Keep your aggregates dry



## Did you know?

- 30% of the energy in an asphalt plant is spent on removing water from the aggregate – keeping aggregate as dry as possible requires less energy from the burner.
- A 2% reduction in aggregate moisture content can reduce energy consumption on your site by 15%.
- Taking aggregate from the top of the stockpile can reduce moisture content by 1%.
- Pumping drainage systems at the base of stockpiles can reduce moisture content by 2%.
- Covering fine materials is a higher priority than coarser materials – they hold more water.

## Take action to save energy...

# 1

**Work with suppliers to deliver the driest aggregate possible – set a target for a maximum moisture of 4% for delivered material.**

# 3

**Minimise moisture reaching the dryer by asking the loading shovel operator to take it from the top – aggregate from the top 1/3 of the stockpile has 1% less moisture.**

# 2

**Reduce the moisture in all aggregates stored on site.**

- Store fine materials under cover wherever possible.
- Ensure yards and stockpiles slope away from the front to allow water to drain away.
- Give wet stockpiles enough time to drain before you use them – 24 hours can reduce moisture by 2%.
- Where feasible, invest in additional covered storage and install vacuum dewatering systems to remove water from storage bays.



**Take action and you can save 15% of the total energy used on site, about £75,000 a year on a big site!**



**Add your actions to your site's energy saving plan and start counting the savings.**