



Green Star

FAQ ABOUT BITUMEN EMULSION

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1. Do we need special equipment for carrying bitumen emulsion in bulk?

No, we can use the same trucks used for oil bitumen or cutback without heating or mixing (the movement of trucks mixes bitumen emulsion up.)

2. Is there any quality problem with bitumen emulsion due to long distance transportation?

Long distance doesn't influence on the quality, the only subject effects on the quality is time. If bitumen emulsion stays unmoved or untouched more than 4 months, two main parts, bitumen and water, begin to separate from each other and then, bitumen emulsion becomes useless.

3. What is the storage temperature range for bitumen emulsion?

5° to 60° C. Better to use storage tanks with mixer, otherwise, it is recommended to utilize 2-layer tanks (thermal insulated tanks). If the average temperature reaches less than 0°, we can use tanks equipped with oil heating system making bitumen emulsion reaches to its standard temperature range, 5° to 60° C.





4. Is it possible to make use of tanks that has been used for storing cutback bitumen (RC-MC-SC) or paving bitumen (60/70 – 80-100 – 100-120)?

yes, if we empty the previous bitumen from the tank, we can fill the tank with bitumen emulsion without need of heat.

5. How should we load up a storage tank with bitumen emulsion?

We should use a long plastic hose that reaches to the bottom of the storage tank. If the hose is short to reach the bottom allowing bitumen emulsion to drop, many bubble of emulsion goes up and if bitumen emulsion is dropped from more than 1 meter height, bubble overflow will be possible too.

6. Can we use cutback bitumen sprayer machine for spraying bitumen emulsion as well?

Yes, we should evacuate cutback first, then load the sprayer machine's tank with bitumen emulsion. It is recommended to use narrow nozzles for bitumen emulsion in comparison with nozzles used for spraying cutback bitumen.

7. How much bitumen emulsion must we spray for Tack coat and Prime coat?

For tack coat application, we must spray 300 to 800 grams and for prime coat application, we must spray 900 to 1500 grams.



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8. How much time does bitumen emulsion need for complete breaking process?

Rapid setting bitumen emulsion completely breaks in 30 minutes up to 1 hour (owing to the weather and the temperature). For slow setting one, the breaking time is 4 to 15 hours, depends on the type and application of bitumen emulsion, and the weather situation as well.

9. Is it normal that lots of bitumen emulsion sprayed on the stones sticks to the wheels of vehicles or asphalt paver?

No, one of the most important parameters showing the quality of bitumen emulsion, is breaking process time. When bitumen emulsion doesn't break within the related time (regarding its name, CRS, CMS or CSS), it sticks to whatever makes contact with it. Though, we should consider the breaking time, which means we can drive on it or implement the asphalt layer with asphalt paver after its normal breaking time passes (depends on the bitumen emulsion breaking speed and the ambient situation).





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