

Limited Liability Company “DorStroyService”

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Letter #710, from 24/11/2012

City of Ulan-Ude

To: President of Cantat Associates Inc, Alexander B. Zevin

Letter of Feedback

LLC “DorStroyService” is the general contractor of the M-55 (Baikal, Irkutsk-Chita) highway maintenance project, of the 865-889 km highway section.

In November 2012, we performed the placement of the base layer using coarse graded asphalt, with a pavement thickness of 8 cm. The asphalt mix was produced using the Evotherm 3G (subclass J1) technology and additive, provided to us by your company Cantat Associates Inc (Canada). The additive was mechanically introduced into the asphalt cement, at a rate of 3 kg per 1 tonne of asphalt cement.

The Evotherm 3G warm mix asphalt was placed between pickets 28+00 – 48+00, with a total produced quantity of 3100 tonnes of asphalt mix.

The haul distance was 42-44 km with a payload capacity of 22 tonnes, under canopy, total haul time of 40-50 min. Plant mixing temperature +150 °C, temperature dropped 1-2°C after mix was loaded into paver. During haul, crust did not form and the mix did not clump, no segregation was noticed during unloading of the mix.

Homogeneous, ductile mix, placement temperature of 120-130°C. However, compaction could not be performed immediately, only after 30-45 minutes, due to a very slow mix cooling rate, in spite of the fact, that the environment temperature during paving was as low as -19°C.

Compaction was performed using 8 and 14 tonne vibratory compactors, and a 20 tonne pneumatic roller.

The use of Evotherm 3G improves workability and guarantees good compaction. The mix maintains ductility for a long period of time, which allows compaction up to a temperature of 60°C.

Samples extracted from the pavement showed a compaction coefficient of 0.98-0.99%, which complies with the requirements of the local building requirements.

The water saturation parameter and average compaction, also comply with the requirements. It would be impossible to guarantee the requirements of the regulatory documents under the given environment conditions and haul distances, without the use of Evotherm 3G.

LLC “DorStroyService” thanks you for providing the Evotherm 3G (J1) technology and additive-concentrate and looks forward to a productive future cooperation.

I.A. Baksheev
Chief Engineer