

OFFICE OF THE CHIEF ENGINEER(R), PWD, RAJASTHAN, JAIPUR

No.F.45/P&M-II/Circular/05/41

Dated: 6/6/12

CIRCULAR No. R-4/2012

Sub:- Tack coat on existing bituminous surfaces.

As per IRC 16 2008 clause 4.2 Material "The binder used for tack coat shall be either cationic bitumen emulsion(RS-1) confirming to IS 8887/ASTM D2397 or suitable low viscosity paving bitumen of VG10 Grade confirming to IS:73.

Presently Cationic Bitumen emulsion (RS-1) confirming to IS 8887/ASTM D2397 is being generally used as binder for tack coat on road works. After application of emulsion, it is necessary that sufficient time is allowed for emulsion to break i.e. turn black before placing bitumenous mix over it. During this period traffic should be kept off from the area sprayed with tack coat. But it is experienced that after application of tack coat in many situations traffic ply over it and sufficient time for curing /breaking of emulsion is not available. This results in slippage and failure of bituminous course due to poor bond between the over lay and existing B.T. surface. The problem is more predominant in case of single lane roads where traffic intensity is high and traffic can not be kept off the area to be treated.

All the field engineers are therefore advised to use low viscosity paving bitumen VG-10 for tack coat in such situations.

It is further clarified that for priming coat, cationic emulsion(SS-1) will be continued to be used as prescribed in IRC 16-2008.


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Copy forwarded to the following for information and necessary action.

1. P.S. to Hon'ble PWM Govt. of Rajasthan, Jaipur.
2. P.S. to Pr. Secretary PWD Govt. of Rajasthan, Jaipur.
3. P.S. to Secretary PWD Govt. of Rajasthan, Jaipur
4. C.E. (R) / C.E. (NH) / C.E. (S.S.) / C.E. PMGSY PWD Rajasthan Jaipur.
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6. Superintending Engineer PWD Circle..... (All)
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