



097.13 DPWH  
08-18-2003

Republika ng Pilipinas  
**KAGAWARAN NG PAGAWAIN AT LANSANGANG PAMBAYAN**  
**TANGGAPAN NG KALIHIM**  
Maynila

DEPARTMENT ORDER )  
No. **223** )  
Series of 2003 *08-18-03* )

**AUG 18 2003**

**SUBJECT : Instructions on the Use of Admixtures in Concrete Mix and Hydrated Lime Aside from Mineral Filler in Bituminous Mix**

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It has been observed that there are some suppliers of concrete mix for DPWH projects who are using admixtures to accelerate the time of setting and early strength development of concrete without prior approval from DPWH and without the necessary change order. As a result, there are cases wherein the minimum cement requirement per approved design mix and as spelled out under the DPWH Standard Specifications is reduced during batching operation. The practice affects the durability of the concrete and oftentimes causes the premature cracking of concrete pavement due to lower cement content in the mix.

Although the use of admixtures is allowed under the DPWH Standard Specifications, it has to be stressed that the material is added only to the mix to produce some desired modifications to the properties of the concrete where necessary, but not as partial replacement of cement.

Similarly, there are some asphalt suppliers of bituminous mix for DPWH projects who are not using the required hydrated lime aside from mineral filler as stipulated under the DPWH Standard Specifications. The practice also affects the stability of the mix and oftentimes causes the premature cracking of asphalt pavement.

Henceforth, it is hereby directed that admixtures shall be used only in concrete mix at controlled proportion after it has satisfactorily passed the corresponding specification and as permitted by the approving authority. In no case should the material be used as partial replacement of cement. Likewise, the use of hydrated lime in asphalt mix under Section 310.2.4 of the 1995 DPWH Standard Specifications should be strictly enforced.

Additionally, all concrete and asphalt suppliers shall be required to comply strictly with the approved "design mix" and "job mix formula" during concrete and asphalt batching operations, respectively.

Further, all heads of implementing offices are also directed to strictly monitor compliance of concrete and asphalt suppliers to these instructions.

This Order takes effect immediately.

  
**FLORANTE SORIQUEZ**  
Acting Secretary