

Hot Mix Surface Treatment Method (Hard Type)

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Warm Mix Asphalt

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Hot Mix Surface Treatment Method (Hard Type)

- The Hot Mix Surface Treatment Method (Hard Type) (Product name: Refresh Seal Mix-H) is a surface treatment method whereby hot asphalt mixture with maximum aggregate size of 5 mm with special modifying agent is laid out on an existing road surface in a thin layer and compacted.
- This method can be efficiently applied to damaged pavement surfaces by normal asphalt pavement machines to make an average pavement thickness of 15 to 25 mm, thus prolonging the life of existing pavement, shortening the construction period, and reducing construction costs.
- The accumulated executed construction area so far is 500,000 m² in 5 years, and the method has been registered with the Ministry of Land, Infrastructure and Transport and the Ministry of Environment of Japan.



Special modifying agent (Refresh Support M)



The package appearance of special modifying agent



before



after

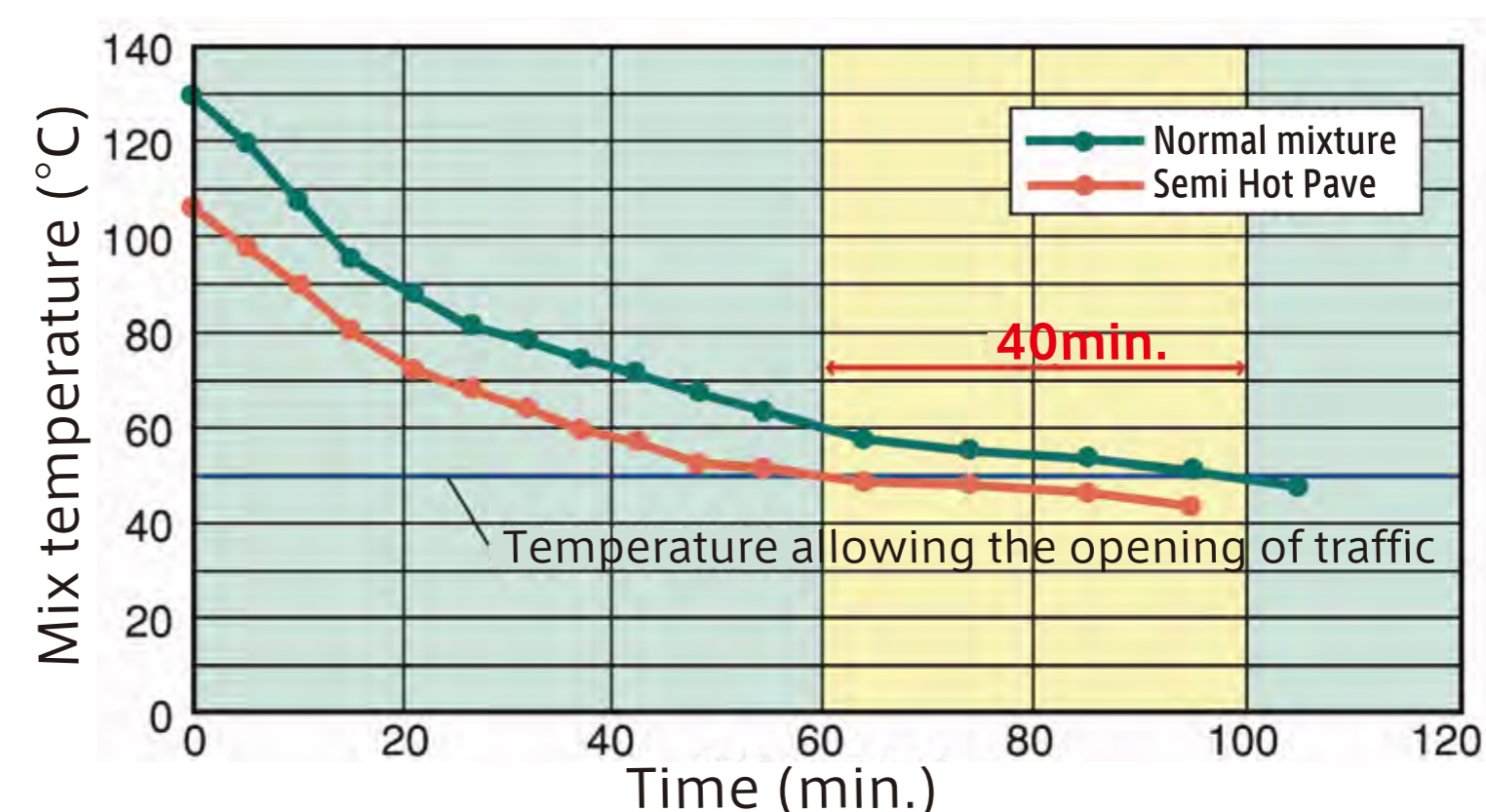
Warm Mix Asphalt

- Warm Mix Asphalt (Product name: Semi Hot Pave) is a mixture allowing the temperature at the time of production and construction to be lowered by about 30°C by adding a special additive agent (Semi Hot Support) in the plant-mixing method.
- Even after lowering the temperature, it still has mixing performance and compaction degree equivalent to those of normal mixture. For this reason, it can secure performance and construction ability equivalent to normal asphalt mixture.
- Even with construction in cold seasons and of thin layer pavement, which are generally difficult with lower temperature mixture, production temperature does not need to be increased too much for application.

Items	Semi Hot Pave	Normal mixture
Production temperature (°C)	130	160
CO ₂ emissions (kg·CO ₂ /t)	18.8	22.4
CO ₂ emissions ratio (%)	84.0	100

CO₂ emission reduction

The emission of CO₂ in the heating process of production can be reduced by 16% compared with normal mixture.



Early opening of traffic

Traffic can be opened about 40 minutes earlier than with the normal mixture.