

Roads, Parking Lots
and Airfields
(Asphalt-based)

Urban Cool (Heat Barrier Type)

NETIS Registration No. : KT-060055-V



This pavement reflects solar energy, inhibiting the rise in pavement surface temperatures, and helping to alleviate the heat island phenomenon.

Overview

- Urban Cool (Heat Barrier Type) is a special pavement technology which can reflect more of the visible rays and near-infrared ray in solar energy than ordinary asphalt pavement (dense grade asphalt pavement). This is achieved by coating the pavement surface with a special heat barrier paint. This inhibits the rise in pavement temperatures, and enables reduction in the amount of heat accumulation.
- Urban Cool (Heat Barrier Type) is an environmentally friendly technology for people and the earth. It alleviates and curbs the heat island phenomenon which is a problem today in urban areas.

Features

- Reduces thermal energy absorbed by pavement and inhibits the rise in pavement surface temperature, thanks to a characteristic of reflecting near-infrared rays.
- Fluidity resistance is improved because the rise in daytime temperature at the surface of asphalt pavement is held down to 8-12°C in the summer.
- Management is easy because there is no need to supply water or take other actions for the pavement to function.
- Pavement hardens in a short time of 30-60 minutes, thus enabling road use immediately after paving.
- Thermal insulation coating will not degrade drainage function or noise reduction by using pavement base as drainage pavement.

Applications

- Walking paths, parks, amusement parks
- Roads, parking lots, bus stops
- Shopping streets

Reflection of sunlight by Urban Cool (Heat Barrier Type)

