

STRUCTURE MARKINGS

KAYEMO EXPRESSWAY, CHINA

PROJECT OBJECTIVE

Kayemo expressway in Western China is connecting Kashgar and Hetian area. The length of the road is more than 185 miles (300 km) and it plays an important role for Southern Xinjiang region. The expressway improves traffic infrastructure and contributes to the economic development in the region. During construction, special efforts were taken to overcome extreme weather conditions, such as sandstorms or drought and to protect the local ecosystem.

With the expressway, the local road authority aimed at increasing road safety and reducing maintenance efforts for lane markings after construction of the roadway. Therefore, the authority chose the two-component MMA cold plastic road marking system based on DEGAROUTE® resins.

In case of tire contact, the dot structure produces a soft vibrating and subtle audible warning signal, alerting the driver when departing from the lane. The three-dimensional structure also allows for optimal water drainage, revealing glass beads that reflect the headlights of passing cars, resulting in better guidance of drivers at night and during rainfall.

Besides haptic and audible warning signals and excellent wet-night visibility, structure markings based on DEGAROUTE® resins are highly durable. These markings withstand extreme temperatures, heavy traffic loads and snow plows for years without losing their visibility and ensuring low maintenance efforts.



SITE		APPLICATION	
COUNTRY	China	SYSTEM	Cold plastic spray and structure markings
LOCATION	Expressway connecting Kashgar and Hetian area	SURFACE	Asphalt
APPLICATION DATE	May to July 2019	EQUIPMENT	2K road marking machine (spray and dot structure)
		THICKNESS	Cold spray plastic 0.7 mm (28 mils), dot structure 5 mm (197 mils)

PERFORMANCE

- Audible and haptic signal to alert the driver when crossing the lane
- High visibility of road markings during the day and at night, so that drivers can safely reach their destinations
- Resource efficient and environmentally friendly with zero solvent emissions
- Strong wear resistance under high-traffic loads, even in the most extreme climate conditions