

HONG KONG-ZHUHAI-MACAO BRIDGE CHINA



PROJECT OBJECTIVE

Hong Kong-Zhuhai-Macao Bridge (HZMB) spans kilometers and is both the world's longest sea crossing and the longest fixed link on earth.

HZMB is situated at the waters of the Lingding-yang of Pearl River Estuary consisting of three main sections: The Main Bridge in the middle of the Pearl River Estuary, the Hong Kong Link Road in the east and the Zhuhai Link Road in the west of the Estuary.

Connecting the east and west area of the Pearl River Estuary with a direct road connection, HZMB is expected to boost the economic and sustainable development of this region. In the past, traveling between Hong Kong and Zhuhai respectively Macao took up to three hours - the new bridge cuts this down to 45 minutes. Measuring 30 kilometers (19 miles), the Main Bridge is the largest part of the project, including a bridge-tunnel system consisting of an undersea tunnel and a viaduct.

With an expected number of 126,000 commuters per day by the year 2030, safety is a top priority. Flat line markings based on DEGAROUTE® resins were mainly applied on the Main Bridge, the largest part of the HZMB.

High performance as well as durability and visibility were claimed as key criteria for road markings. Therefore, DEGAROUTE® based cold plastic MMA road markings were chosen as the primary road marking system.

SITE		APPLICATION	
COUNTRY	Greater China	SYSTEM	Flat line marking
LOCATION	Hong Kong-Macau-Zhuhai Bridge	SURFACE	Asphalt
APPLICATION DATE	2017 - 2018	EQUIPMENT	Flat line marking machine
		THICKNESS	1.2 - 1.5 mm (47 - 59 mils)

PERFORMANCE

- High visibility of DEGAROUTE® based road markings contribute to the safety of commuters during the day and night under all weather conditions
- Good performance in durability and eco-friendliness of DEGAROUTE® based road markings guarantee a long life-time
- Initial retroreflective value of DEGAROUTE® based road markings was >350 mcd/lux/m², expected to provide >250 mcd/lux/m² after two years of service and >150 mcd/lux/m² after three years of service on the bridge