

Yellow Carpet – A Safer and More Visible Way to Keep Kids Safe

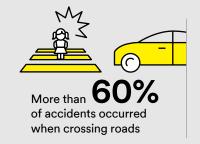
Korea Case Study

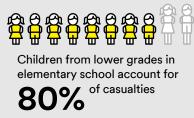
Creating A Safer School Zone

Traffic accidents involving children in school zones









Source from: KoRoad & Korea National University of Transportation

Ensuring Kids Get Home Safely

Despite numerous efforts by both the government and corporate sectors to install safety facilities in school zones, traffic accidents did not decrease.





Existing safety facilities include signs and colour paving on the roads.

Collaboration between parents and NGOs for greater awareness

When this program began, we collaborated with NGOs to encourage more participation by both parents and kids in the installation of the zones. This helped spread the news nationwide and increased public awareness.

Material Specification from Ministry of Interior and Safety (MOIS)



- Highly visible a with uniform surface
- Meets the minimum reflectivity of 150 mcd/m2/lx under dry conditions, and 70 mcd/m2/lx under wet conditions
- Minimum requirement for skid resistance: 40 BPN

The Yellow Carpet initiative was tested in 13 schools across Seoul, with a vision to create a safer, more visible environment in school zones with two objectives:

- Have a nudge effect: Encourage kids to stay on the Yellow Carpet zone using a bright colour to attract their attention.
- Get drivers' attention: They can easily see where the kids are as yellow is highly visible, compared to other colours.





6251 Graphic

LPM5001 Polyurea Paint

Products Used

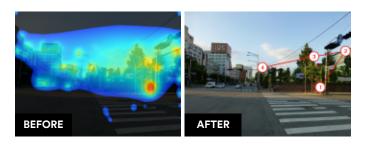
Paint type material

- Durability: 6251 (1~2 years), LPM5000 (Permanent)
- Skid resistance (BPN, British pendulum number): over 45 (All)
- Reflectivity (mcd/m2/lx): Wet (200),
 Dry (500) LPM5000 with CR AWE
- Eco-friendly (All)
- Dries quickly, within 2~3 minutes (LPM5000)

Results

Analysis of Yellow Carpet Effect

A study of the Yellow Carpet initiative showed that prior to installation, the driver's attention would first be drawn to elements like trees. But after the installation, the Yellow Carpet would draw the driver's attention, giving him more time to respond to an unexpected situation at that particular zone.

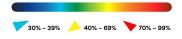






Heat map

Red reflects the degree of attention an element receives from a driver.



Case Study Snapshots

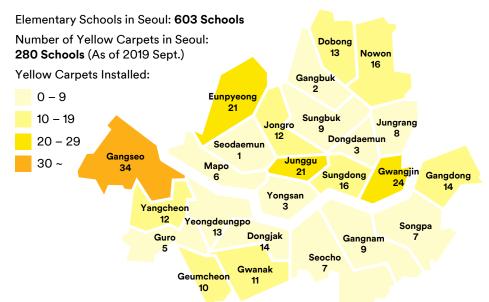
Examples of Yellow Carpet safety zone during the day and night.







Current status of Yellow Carpet Installation in Seoul



Yellow Carpet's impact on driver visibility:

Kwanghee Elementary School
— From 34% to **85**%



Bonglae Elementary School
— From 34% to **95**%



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