



# Icetool

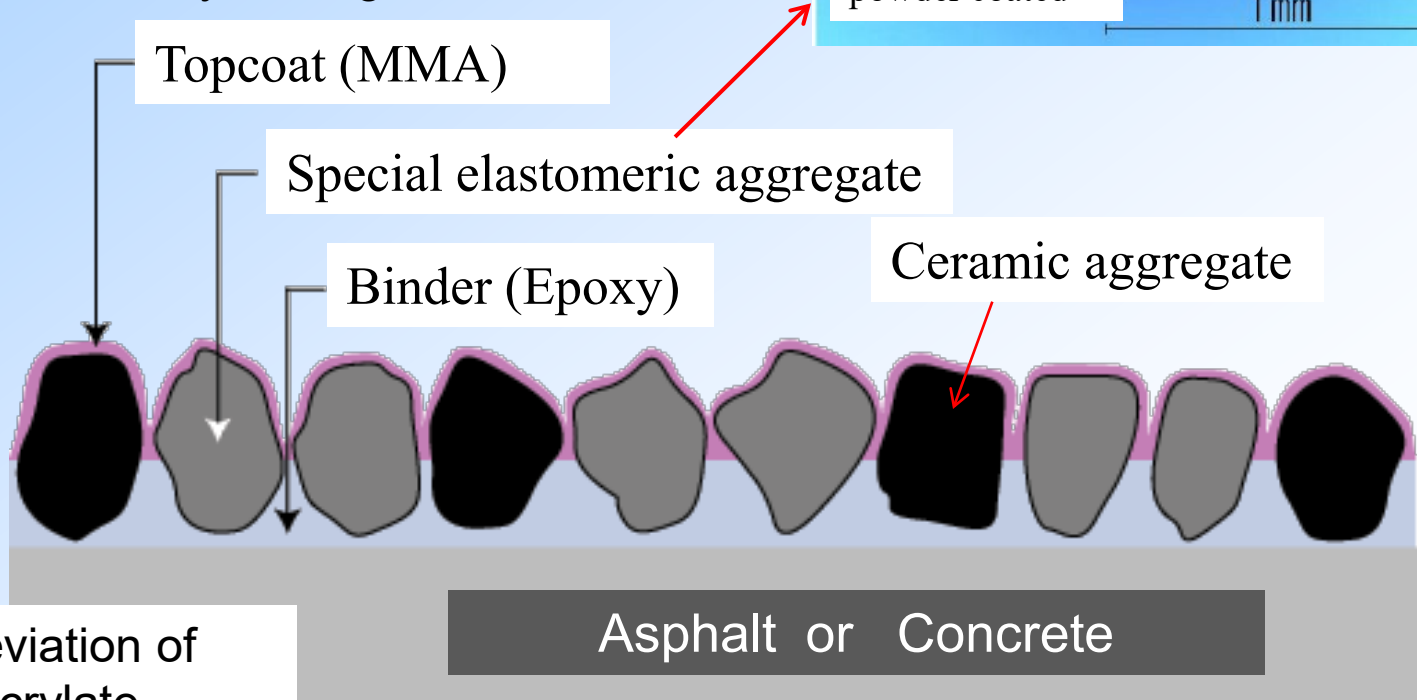
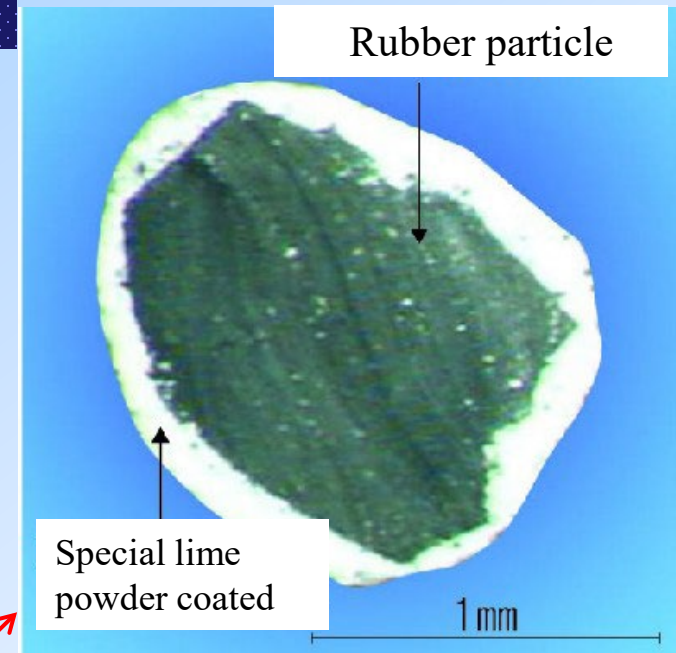
## Anti-icing pavements / Roadways

# Structure of Icetool

Special elastomeric aggregate on the road surfaces is deformed by wheel loads and ice plates on the surfaces should be broken into small pieces.

Icetool can be placed on both new and existing pavements.

We have been exporting the Icetool products to foreign countries since 4 years ago.



MMA is abbreviation of Methyl Methacrylate

# Feature of Icetool

**Breaking Ice plate:** Special elastomeric aggregate on the road surfaces is deformed by wheel loads and ice plates on the surfaces should be broken into small pieces..

**Adhesion :** The surfaces of special elastomeric aggregate are coated with lime-like powder which improves the adhesion between binder and aggregate.

**Prevention against skid :** Since the aggregate contains ceramic particles, this product is effective for both ice breaking and skid prevention.



# Taber abrasion test

General rubber pigments



300 ceramics roller revolutions

Icetool Special elastomeric aggregates



Only 1.5 g abrasion for 1000  
ceramics roller revolutions

4.9N/mm<sup>2</sup>  
ceramics  
roller (H-22)  
pressure



# Process of construction : 200m<sup>2</sup>/day by 6 workmen



Sweeping



Base resin  
(Prime coating)



Distributing Icetool aggregate



Roller compacting



Excessive aggregate  
must be swept away



Top coating



# Complete and open





# Before and after



# 3 years past / Example 1



Traffic volume  
38,152 cars run through/day  
(2,001 heavy trucks include)



## 2 years past / Example 2





# Example 3

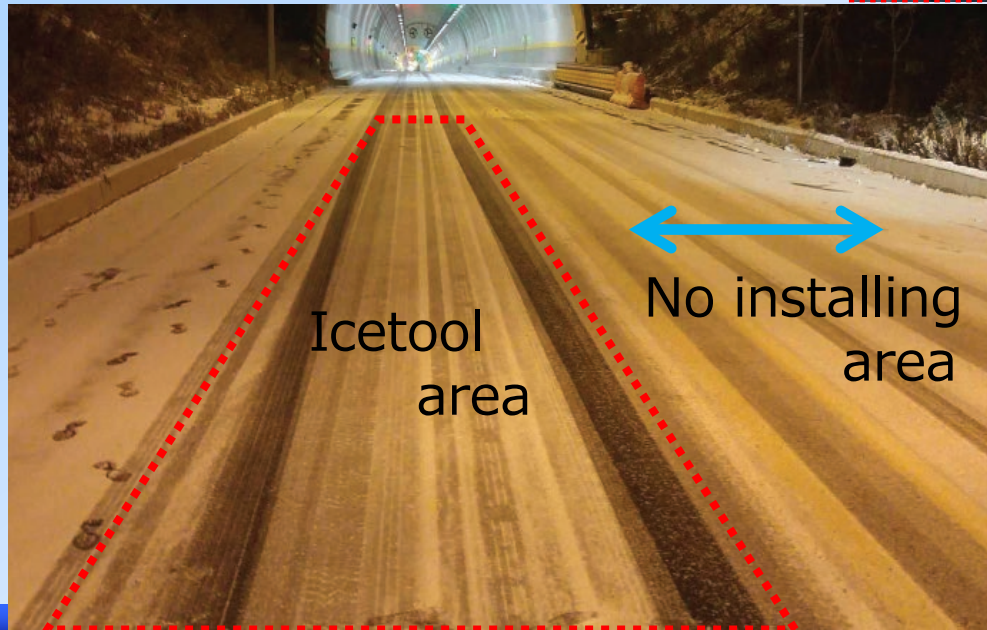
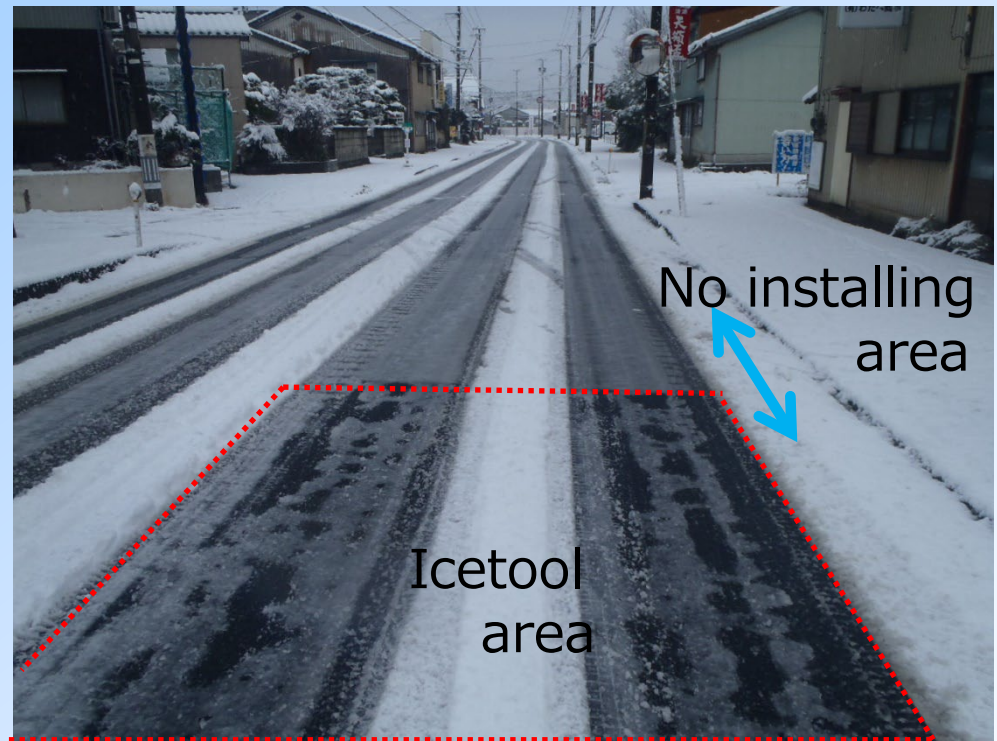




# Example 4



## Icetool's Effect



The area within the red dotted line indicates the location where Icetool has been installed. It can be observed that the pavement surface (Icetool) has cleared the snow and ice from the road with the pressure of vehicle's moving tires. (By installing Icetool on the asphalt surface, the elasticity of the Icetool material will cause the ice on the road to break when a car passes over, which will help prevent accidents.)