



# Anticarbonation Coating for Car Parking at Sir Hurkison Das Nurrotum Das Hospital and Research Centre (HNHRC), Mumbai

A Case Study



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# Anti-Carbonation Coating for Car parking at HNHRC, Mumbai

## Project

Sir Harkisondas Nurrotumdas Hospital and Research Centre, Mumbai

## Project Requirements

Sir Harkisondas Nurrotumdas Hospital and Research Centre (HNHRC) is a renowned institution in South Mumbai, having rendered quality healthcare to the society for more than 85 years

As an extension to the current facilities for converting it into one of world's leading healthcare institutions, a brand new 35 storey tower is being constructed. This facility will house 300+ cars in 4 basements parking which are constructed by excavating 12m into the ground and for this parking space they had below requirements

- High performance anti-carbonation coating system to protect the Reinforced Concrete elements from CO<sub>2</sub> penetration.
- Certification from reputed institute for required Carbon diffusion resistance.
- Elastomeric coating system having crack bridging abilities for accommodating the movement of structure.
- Low VOC content, nonhazardous & non-flammable.
- Possible to tint at site to meet exact color requirement for aesthetic purpose.
- DFT Measurements by Ultrasonic gauge as per ASTM D6132-08 or ISO-1997 (Required 200 micron DFT)

## Sika Solution

Sika India Pvt. Ltd. suggested use of **Sikagard<sup>®</sup>-550 W Elastic**, a coating based on UV-curing acrylic dispersion with excellent crack-bridging properties.

The system consist of substrate preparation with mortar using **Sika<sup>®</sup> Latex**, application of single coat of **Sikagard<sup>®</sup>-551 S Elastic Primer** ( consumption of 200g/m<sup>2</sup> ) and two coats of **Sikagard<sup>®</sup>-550 W Elastic** (consumption of 275 g/m<sup>2</sup> per coat) with high performance airless spray equipment from Graco for uniform thickness achievement

## Sika Products

- Sikagard<sup>®</sup>-551 S Elastic Primer
- Sikagard<sup>®</sup>-550 W Elastic
- Sika<sup>®</sup> Latex

## Project Participants

Client	- Reliance Industries Limited
Applicator's	- Industrial Construction & Contractors - Uday and Narendra Civil Engineers
Approximate Area	- 100000 Square meters





Mixing of Product



Graco Mixing Machine



Over Head Application



Airless Gun



Finished Basement Level 1



Finished Basement Level 2



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