



SIKA AT WORK

SIKA JOINT TREATMENT SOLUTIONS
AT DAIMLER INDIA LIMITED, ORAGADAM
CHENNAI

SIKA JOINT TREATMENT TECHNOLOGY AT DAIMLER INDIA LIMITED, ORAGADAM, CHENNAI



SIKA SOLUTIONS OF JOINT TREATMENT WITH SIKA® FLOOR JOINT S

Daimler Group is one of the biggest producers of premium cars and the world's biggest manufacturer of commercial vehicles with a global reach. In India, Daimler India Commercial Vehicle produces trucks and buses specially designed for the Indian market and for its export markets in Asia, Africa and South America. DICV's state of the art Oragadam plant near Chennai is the only Daimler facility producing three brands of commercial vehicles. The facility spreads over 400 acres and is equipped with modern robotics technology, R&D Centre, an integrated training facility apart from its in-house supplier park.

Project Requirements

Expansion joints issue in the Truck Manufacturing Units - Deteriorated joints created an interruption in the continuity of the floor surface, leading to operational slowdowns and increased vehicle maintenance costs. High rack lifts with smaller and harder wheels were causing deformation of floor joints due to increased point loads.

Reasons of Expansion Joint Failure:

Here are some of the most common causes of joint problems for owners, not necessarily in order of frequency or severity;

- Early-entry cuts made with worn "skid plates" or blades
- Joints spaced too widely
- Lack of dowels (no load-transfer)
- Dowels improperly positioned.
- Excessive curl due to joint spacing, poor mix design, etc.
- Rocking slabs due to curl and/or lack of load-transfer
- Inadequate densification at construction joint edges
- Lack of adequate curing at joint edges
- Failure to armor joints where appropriate
- Joints that open too wide (numerous causes)
- Reliance on aggregate interlock for load-transfer
- Not minimizing number of joints exposed to traffic
- Failure to fill joints
- Improper filling of joints (wrong material, inadequate filler depth, inadequate cleaning of joint before filling, concave filler profile, etc.)

Sika Solution

Sika® Floor Joint S is recommended as a solution for their problem.

Sika® Floor Joint S is a prefabricated, carbon-fibre-reinforced polymer composite panel with extremely high physical properties. Because of the waved joint design an improved load distribution is achieved.

Sika® Floor Joint S is the standard panel for new build and refurbishment of joints for concrete screeds with normal up to medium heavy wear e.g. ware houses etc.

Sika Products

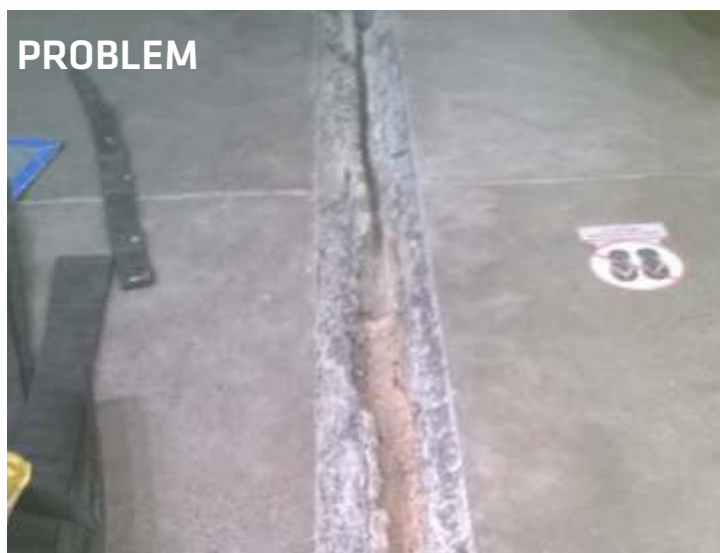
- Sika® Floor Joint S
- Sikadur® -31
- Sikafloor® -161

Project Participants

Client - Daimler India Limited

Architect & Consultant :-PTK Architects

Applicator-Sree Balaji Buildcare Pvt. Ltd. Chennai



SIKA® FLOOR SEALING SOLUTIONS



SIKA® JOINT TREATMENT SOLUTIONS DAIMLER INDIA LIMITED, ORAGADAM, CHENNAI

WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, façades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature high quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.

SIKA INDIA PVT. LTD.

601, A Infinity Tower
Off Link Road, Malad West
Mumbai- 400 064, India

Contact

Phone +91 22 4038 4038
Fax +91 22 4038 4039
ind.sika.com

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