



Egypt - The grand Egyptian Museum

# WHAT'S NEW

AFRICA CUSTOMER MAGAZINE

## SIKA AT WORK

EGYPT, TANZANIA, MOZAMBIQUE, KENYA,  
NIGERIA, ETHIOPIA, SOUTH AFRICA,  
ANGOLA, ALGERIA, SENEGAL, IVORY COAST

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## Dear customers,

This is the third issue of our magazine in which we present the latest projects, information on innovative solutions and Sika products and the latest events on the continent.

In 2019 Sika continues to grow by expanding its local production policy for better service to our customers. Africa has great potential for all our target markets and we are constantly developing solutions that are best suited to local needs. This growth is accompanied by partnerships with our customers to which we provide technical support and training.

Building Trust is our main focus on the continent, our success is with our customers. We are committed to continuing Sika's success story, generating sustainable growth and strengthening our relationships with our customers.

Enjoy reading Sika What's New

**Jean de Martres**

Africa Area Manager

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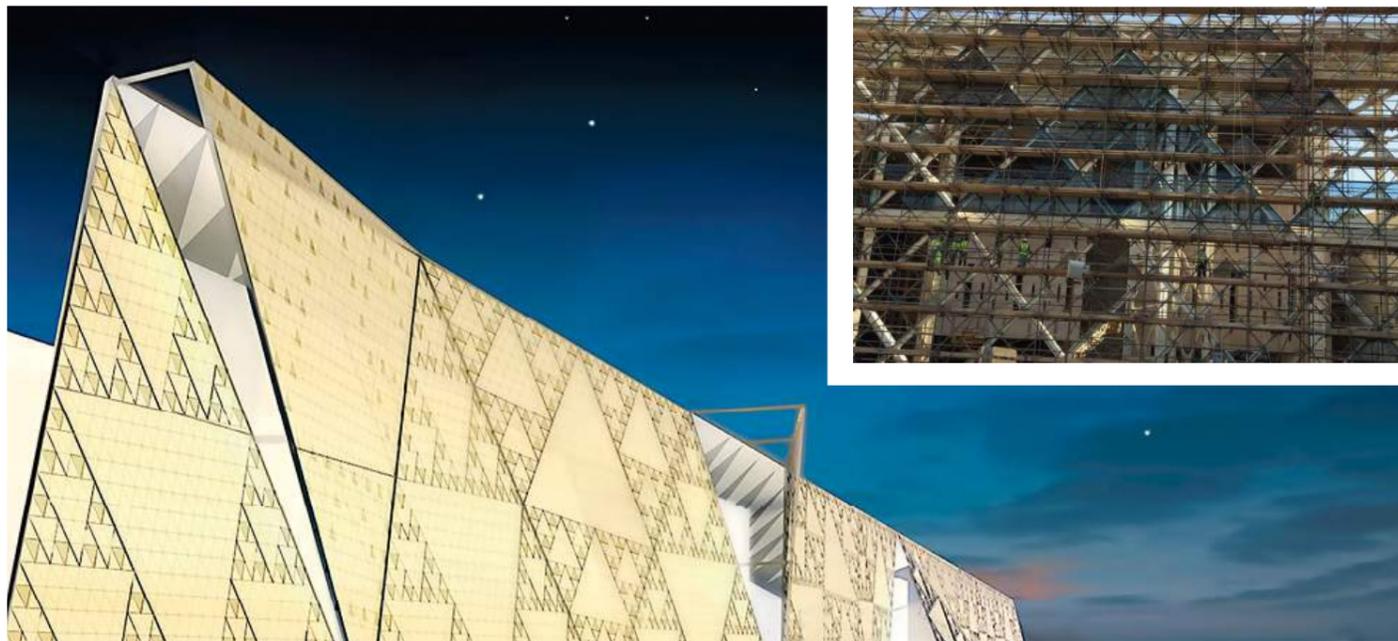


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# EGYPT- THE GRAND EGYPTIAN MUSEUM



Located nearby the Giza Pyramids, The Grand Egyptian Museum (GEM) is expected to be one of the largest museums in the world and is scheduled to open in 2020. The museum acts as the intersection between modernity and antiquity given the global interest in Pharaonic history which goes back to over 7 000 years.

The museum replicates and modernizes the triangular shape of the nearby pyramids. All the details of the complex are planned around its triangular structure and built on the difference in level to create a structure that doesn't extend above the plateau.

The complex concrete structures with an extreme level of precision ensure the perfect alignment of the underside of the roof and its suspended ceilings consisting of cascading panels.



## SIKA Solutions

### Sealing

For joints, the requirements were a joint sealant which meets the international quality standards, rated for movement according to the American ASTM C920 and with limited VOC content. Sikaflex®-1A has a movement capability exactly matching the requirements for a specific joint to ensure long-term functionality, a perfect adhesion to common construction materials, High mechanical strength, high chemical resistance, weather ability and proven durability that guarantees longevity.

### Structural glazing

High-modulus Structural glazing joint for strong flexible fixation of glass units with attractive appearance without visible frames and no shading of glass edges, and resistant to thermal stress. The high-modulus 2-part structural glazing silicone sealant Sikasil®SG-500 CN offers the best properties for structural glazing to accommodate wind loads and thermal expansion and to transfer the forces to the structure while also withstanding weathering for many years.

### Roofing

The required Roofing system should consider a durable Waterproofing system that respects the architectural roof design as well as a thermal insulation system according to the thermal resistance requested by the designer. Sika integrated roofing system (Sika Combo roof) is one of the most comprehensive roofing solutions that comprises the waterproofing, thermal insulation and finishing for the rooftop. It is a monolithic, seamless, joint free, economical, speedy waterproofing system with high thermal insulated efficiency that reduces the cooling costs inside buildings. It is based on Sika PU Spray Foam coated with SikaFill®-100, a highly elastic, highly reflective and UV resistant acrylic waterproofing coating.

### Facades

Thermal insulation system for the facades that effectively prevents the heat flow and keep the indoor temperature was achieved by Sikagard®-550 W Elastic white.

### Strengthening

It was required to strengthen the roof slab to maintain serviceability and improving service life and durability to comply with current standards. The strengthening system has to maintain the unique architectural appearance and design with high Glass transition temperature to meet the environmental condition for the part located at the roof top of slab. Sika Strengthening complete system covering all the technical requirements including heating curing: SikaWrap®-530 C wet application by Sikadur®-300 impregnating and laminating resin using special saturating machine. A special heat curing system was designed so that to apply a temperature of 80 °C on the whole top of roof slab area for the initial curing period (7 days).

- Owner : Ministry of culture of Egypt
- Consultants : AACE, EHAF
- Contractor : BESIX - ORASCOM

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## IVORY COAST VITIB ABIDJAN

Considered as the African Silicon Valley, the Village of Information Technologies and Biotechnology (VITIB) is a free zone that covers an area of 242 hectares and includes 3 areas, production, administration and residential.

The first buildings in the administration and residential area are built on a land between the sea and the lagoon. It was therefore essential to find solutions adapted to a humid environment and an aggressive marine environment.

### SIKA SOLUTIONS

All concretes have been designed with Sika Hydrofuge, an additive that provides waterproofing and resistance to marine atmosphere. The concretes were further protected with the mortar Sikatop 107 which is resistant to salt and carbonation.

The Sika Bituseal membrane system has been selected for roof waterproofing. And the tiling of the floors and walls was done with SikaCeram 80 CI.

- Owner : VITIB
- Controller : BENETD
- Project Manager : SHAPOORJI PALLONJI



## NIGERIA LNG OFFICE

The 100,000 m<sup>2</sup> site for the Nigeria Liquefied Natural Gas head office is located on the Niger delta near Port Harcourt and production sites. 22 buildings are under construction which will cover a 37,214 m<sup>2</sup> surface area. The project will also include renovating of some buildings and mammoth infrastructural works with the end goal of accommodating 400 employees.

The main attraction of the contractor to using Sika products during the lifeline of the project is because of the premium broad range of technologies and solutions Sika offered.

A close relationship at different levels has been also a key success factor.

### SIKA SOLUTIONS

For the concrete a superplasticizer high range water reducing admixture, Sika Sikament NNR has been selected and the curing compound Antisol E was also used.

The waterproofing of the water treatment plant has been done with SikaTop 107.

Sika Hyflex Façade 250 has been introduced for the first time in the Nigerian market on this project for joints sealing. Expansion joints on buildings were filled with SikaFlex 11 FC and SikaFlex Pro 3. Sika Boom FR (Fire Resistant) has been used for insulating areas that required fire protection.

- Owner : Nigerian Liquefied Natural Gas
- Contractor : BOUYGES CONSTRUCTION NIGERIA LTD



## ETHIOPIA

### ADDIS ABABA NATIONAL STADIUM

The Addis Ababa national stadium is built on a vast area in eastern part of the city. It includes the main stadium of 60 000 seats for athletics events, concerts, religious and natural festivals and a sports village comprising indoor and outdoor aquatic centers, sporting halls, residential complexes and commercial zones.

The stadium consists of four levels, one floor underground and three floors above ground. The customer asked for waterproofing and flooring works for seat area and wet area places.

#### SIKA SOLUTIONS

For waterproofing Sika has proposed Sika Seal 105 a two component polymer modified slurry which combine the crystallization action (pore block) and the waterproofing capability of polymer.

For the seat area, Sikafloor 400 N was applied. It's a one-component, UV resistant, highly elastic, moisture curing polyurethane waterproof membrane.

- Owner : Government of Ethiopia
- Specifier : MH Consulting Engineers PLC
- Main Contractor : China State Construction Engineering Corporation
- Sub-contractor (Sika products application) : Anchor Waterproofing Works



## SOUTH AFRICA

### SQUARE SHOPPING MALL

For this brand new shopping mall in Ladysmith, the owner had a vested interest in the overall project and ensured premium products were used both in the construction and finishing touches, tile adhesives, waterproofing and roofing systems and joint sealant.

#### SIKA SOLUTIONS

SikaCeram-200 Porcelain the tile adhesive was used for all floor tiles throughout the mall as well as the walls in the passages leading to the bathroom areas, completing a total of 11 880m<sup>2</sup> tile area. In addition to the interior finishes, the project also required waterproofing of the outside walkways and entrance. Cemflex, an acrylic based emulsion was the simple solution, chosen for its ease of application and efficacy.

For minor patch repairs incorporated in to the screed mix, Sika Latex<sup>®</sup> was the product chosen and is a synthetic rubber emulsion.

Sikalastic-560, one component, liquid applied waterproofing membrane, was then specified to waterproof the flat roofs of the power station room.

Sikaflex<sup>®</sup>PRO 3i a one part, moisture curing, elastic joint sealant was used to for the expansion joints of the floor in the interior section of the mall.

- Project owner : Dawood Vawda



## ANGOLA

### RESIDENCE MALUNGA LUANDA

This luxury residential complex is spread over 22,000 m<sup>2</sup> and includes 41 two-storey houses with swimming pool and parking. It has a leisure area with gardens, sports fields, tennis courts and games room. Water and energy are provided by generators and tanks installed in the technical area of the residence.

The architect wanted high-end solutions in line with the quality of the project.

#### SIKA SOLUTIONS

Sika has proposed several solutions including roof waterproofing with SikaBit, waterproofing of water tanks and pools with SikaTop Seal 107, joint treatment with Sikaflex 11FC.

- Architecte - Carlos Campelo et associés.
- Entreprise : Odebrecht Angola



## ALGERIA

### HYATT REGENCY HOTEL ALGIERS

Located in the airport area, Hyatt Regency is the first hotel of the international chain Hyatt in Algeria and the 7th on the African continent.

With an area of 58,000m<sup>2</sup> and 324 rooms, the hotel has several areas for restaurants, meeting rooms and a swimming pool.

For the concrete, high mechanical strengths were needed as well as a rheology maintenance of more than 2 hours to allow transport over a long distance between the concrete plant and the site.

#### SIKA SOLUTIONS

Sika has proposed the superplasticizer Sika Viscocrete Tempo-12 and a retarder, Plastiretard to ensure the pouring of large quantities of concrete with a high temperature.

All construction joints were treated with the waterstop strips Sika® Waterbar and the swellable joint profile SikaSwell®-P. Concrete surface defects after demoulding were repaired with the mortars Sika Monotop® 650 and Sika Monotop® SF 126.

All joints in bathrooms were caulked with the polyurethane sealant Sikaflex® PRO-11 FC.

- Owner : Société de Gestion Hotelieres -SIH.
- Specifier : Fabris and Partner.
- Contractor : China State Construction Engineering Corporation- CSCEC.



## KENYA BRITAM TOWER

Britam Tower is a commercial building in Nairobi owned by British-American Investments Company (Britam). With a height of 195 meters above ground and 32 floors, the building features a prismic shape that starts as a square footprint and ends with a two sided roof. At 200 meters, Britam Tower is now the tallest building in East and Central Africa. For the customer the most important point was to get technical support throughout the project and approved products.

### SIKA SOLUTIONS

For such a high construction, the façade joints need to have a fire proof level of 2 hours. Sika has proposed the elastic joint sealant Sikasil®-670 Fire which has a fire resistance up to 4 hours according to EN 1366-4. In addition SikaCeram-201, a high-performance cementitious adhesive has been used for laying tiles on floors.

- Owner : British American Investments Company Limited
- Architect : GAPP Architects & Urban Designers; Triad Architects
- Main contractor: Laxmanbhai Construction



## SENEGAL MED OIL PLANT

The Tunisian agribusiness group MED OIL specialized in the production of margarine, vegetable fats, table oils and mayonnaise has built a new production unit in Diamniadio in the suburbs of Dakar.

The 1200M2 plant required a floor covering, compatible with the requirements of the food industry and meeting the technical requirements of the customer.

### SIKA SOLUTIONS

Sika has proposed Sikafloor 263 SL, a self-leveling epoxy resin system for its high chemical and mechanical performance, as well as its ease of maintenance and its permeability to liquids and water vapor. The anti-slip finish was provided by a dusting of sand on the fresh coating and a finishing resin.

Sika also provided solutions for sealing the waste water treatment plant with mortars containing Sikalatex or Sikalite.

- Owner : Medoil groupe
- Contractor : STRAM Afrique



## TANZANIE

### STANDARD GAUGE RAILWAY

In Tanzania, railway transport is the second most important mode of transport after road. The new Tanzania Standard Gauge Railway (TSG) system, which is currently under construction, is one of a kind in Eastern Africa.

The project planned for 2020 began in April 2017 and the construction is scheduled in 5 sections over a total of 2000km. Phase 1 (330 km) is from Dar es Salaam to Morogoro, and with the new railway passengers will be able to travel between Dar es Salaam and Morogoro in 2 hours and 50 minutes, in comparison to the current 5 plus hours.

#### SIKA SOLUTIONS

For sleepers and prefabricated concrete elements Sika supplies Viscoflow BS TZ and Viscocrete 20HE admixtures to meet strength and durability specifications.

- Owner : TRL (Tanzania Railway Ltd)
- Design Office : Korail
- Contractor : Yapi Merkezi



## MOZAMBIQUE

### ZEN TOWER –MAPUTO

Zen Tower is a 12-storey building located in the main area of the Maputo city, overlooking the sea, with a total area of 7400m<sup>2</sup>, including apartments, common areas, shops, offices and parking designed and adjusted to the needs of users.

For the customer, the fundamental requirements for the award of solutions were waterproofing.

#### SIKA SOLUTIONS

Sika has provided a bituminous membrane Sika® Bit 40 G FP for the basements waterproofing and a finishing mortar for concrete walls Sikawall® 150 HD.

- Owner : Barqueiros, Lda.
- Contractor : Barqueiro
- Application Supervisor : Álvaro Fernandes

## TECHNOLOGY AND CONCEPTS FOR FLOORING



Sika provides a full range of flooring solutions, which meet or exceed all of the latest standards and requirements for both new and refurbishment works in terms of impact resistance, rolling load resistance, wear resistance, safety regulations, antistatic performance, chemical or fire resistance and, increasingly, quick and efficient installation.

Sika products can be customized to meet the customer technical requirements while still complying with local regulations. And for applicators, Sika offers training programs to ensure proper installations.

Sika flooring solutions are used in various function areas in buildings and facilities:

- Manufacturing Industry (automotive, electronics, assembly plants, chemicals, etc.)
- Life Science Industry (food and beverage, pharmaceuticals, laboratories, etc.)
- Warehouse and Distribution (storage and transportation)
- Car Park, Parking Garages (public, commercial, private)
- Commercial Buildings (hotels, shops, offices, exhibition centers, etc.)
- Institutional Buildings (schools, hospitals, libraries, museums, athletic centers, etc.)

Sika flooring and coating solutions are based on many technologies including Epoxy, PUR and PMMA resins or combinations of different binder technologies such as PU-Cement and EP- Cement. Products are designed for the latest trends and requirements and comply with all regulations and standards, e.g. ISO 9001 and 14001, AgBB, CE-MARKING, M1, CSM, etc.

### SIKA RANGES

#### Sikafloor Epoxy

These flooring systems offer excellent mechanical strength, wear-resistance and chemical resistance and are aesthetically pleasing. Rather, functionality and delivering long-lasting performance are where these floors excel.

They provide special solutions with extremely high chemical resistance, solutions approved for cleanroom usage and electrostatic discharging, dissipative and electrically conductive flooring.

#### Sikafloor Polyurethane

Polyurethane flooring systems are known for their higher elasticity which allows for crack-bridging designs. Further, these floors excel in absorbing base floor movements. Solutions include designs installed directly on top of elastic waterproofing membranes and are available with or without special surface protection.

Decorative, polyurethane flooring systems offer seamless, high-end aesthetics and are available in a large range of colors. It's an environmentally friendly solution and its backing – comprised of resilient, acoustic isolation pads – are made of recycled rubber and foam particles.

#### Sikafloor® Pronto (PMMA)

Methacrylate (P.M.M.A.) flooring systems speed up installation times to the maximum and are known for the high resistance to a wide variety of uses. The super-fast curing time of these synthetics allows for super-quick refurbishments, though proper ventilation is required during installation to avoid inconveniences from odors.

#### Sikafloor® PurCem® (Polyurethane-cement)

Polyurethane cementitious hybrid flooring systems deliver extreme performance in terms of mechanical and chemical resistance as well as reduced environmental impact. They're durable, low maintenance and available with resurfacing options.

The special core technology of an elastic resinous binder reacting with cementitious fillers is what makes this system family resistant to high temperature, even thermo shocks. Installation on damp concrete surfaces is possible.

## TECHNOLOGY AND CONCEPT FOR FLOORING



### Sikafloor® EpoCem® (Epoxy-cement)

Epoxy cementitious hybrid flooring systems are used as a temporary moisture barrier allowing the application of Epoxy, Polyurethane and PMMA\* resin floors requiring dry substrates.

These products prevent blistering of resin based coatings over damp substrates.

Waiting time is significantly reduced by using Sikafloor® EpoCem® which can be applied directly onto the new concrete after just 7 to 10 days and also directly on concrete substrates recently prepared by high pressure water-jetting in refurbishment works.

### Sikafloor® Level (Cement levelling)

Subfloor preparation and leveling solutions assure compatibility of base floor preparation materials with final, high-end synthetic finishes, Sika offers a full range of leveling underlayers with excellent performance and workability. Each underlayer has a matching range of primers to ensure solid performance on different types of substrates, both in new and refurbishment projects.

We offer solutions for absorbing cementitious and calcium-based slabs, and solutions to go over existing ceramic tile or synthetic flooring.

### Sikafloor® HardTop (Surface hardeners)

Concrete surface hardening, curing and sealing and heavy-duty industrial screeds, the dry shake powders are broadcasted directly onto the fresh concrete before the powerfloat finish is applied to create an extremely hard-wearing, monolithic concrete floor.

Additional performance can be achieved through various liquid-applied surface hardeners, curing compounds and surface sealers.

## ZOOM SIKA MOROCCO



The American equipment manufacturer Delphi has installed a production area of 8,600 m<sup>2</sup> in Tangier, equipped with the latest generation chains for making wiring for various models of car manufacturers.

Sika has proposed Sikafloor®-263 SL self-leveling coating to meet the requirements.

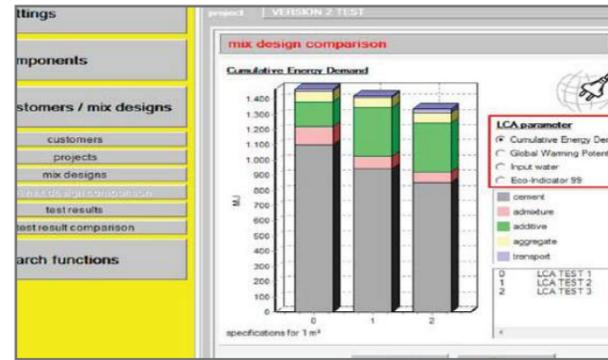
- Owner : Delphi
- Contractor : SMCE



## SIKA MIX DESIGN TOOL

The proper design of concrete is a decisive step in concrete production and for the evaluation of concrete performance in fresh and hardened state.

In addition the exchange of concrete recipes and discussion of certain measures to improve concrete mix designs is a daily challenge for anybody involved in concrete business.



The main goal of the internal **Sika Mix Design Tool** is a complete mix design calculation.

A data base for the raw materials and the projects/customers is part of the tool in order to provide mix design calculation in an efficient way.

The possibility to define different currencies, units and languages should enable the utilization of the tool on a worldwide base

- Creation of concrete mix design by raw material selection from the data base
- Design of combined aggregate grading curves
- Prediction of concrete compressive strength based on cement strength
- Possibility to calculate different batch sizes for laboratory mixes as well as large scale plant trials
- Calculation of cost of a total cubic meter of concrete
- Display of all fresh and hardened concrete characteristics like slump, air content, compressive strength etc.

### EXAMPLE: SBF HEADQUARTERS IN TUNIS



The SBF group (Société Bouzguenda Frères) is one of the leaders in the construction sector in Tunisia. For the construction of its headquarters, the architect wanted 2 decorative concrete walls, one outside and the other inside so that the building reflects SBF's expertise in the field of civil engineering.

Sika used the **Sika Mix Design Tool** software to design a self-compacting architectural concrete with Sika® ViscoCrete Tempo-12 and Plastiretard admixtures. The suitability tests were done in the laboratory in the presence of the client.

## SIKALITE NEW PACKAGING

After Sika Cameroon in 2018, Sika Cote d'Ivoire launched last April, the new packaging of Super Sikalite, powder waterproof admixture for mortars.

This new rigid packaging is more attractive and allows better organization of shelves or displays. It is also easier to use on sites.

With this innovation, Sika differentiates itself to fight effectively against fake products that have no effect on mortar.





## PROMOTE FAIR YAOUNDE

The 7th edition of Promote, the largest entrepreneurship fair in Central Africa was held from February 16 to 24, 2019 at the Palais des Congrès in Yaoundé.

For the second consecutive year, Sika Cameroon took part in this event which received more than 100,000 visitors.

For eight days, between conference-debates, B2B meetings, workshops and other events on the program, Sika Cameroon has presented its products and services to many professional visitors.



## EQUIPAUTO ALGER

Sika Algeria has participated in the 13th edition of the EQUIPAUTO fair from 11th to 14th of March 2019 at the Palais des Expositions des Pins Maritimes - SAFEX, in Algiers.

EQUIPAUTO is the must-attend event for the automotive equipment industry and brings together 525 companies on a 12,000 m<sup>2</sup> exhibition area with more than 10,000 trade visitors.

Sika is a player in the automotive aftermarket in Algeria and has introduced technologies for gongding windshields and repairing plastic bumpers.



## BILLBOARD CAMPAIGN IN IVORY COAST

To increase its notoriety, get known by small contractors and the private people and promote the brand, Sika Ivory Coast has undertaken since the beginning of the year and for a period of 6 months, a billboard campaign in large cities of the country, Abidjan, Yamoussoukro and Assinie.

Placed in the city center and on the main roads, the posters convey a clear message about local production and customer support to promote Sika's brand and local presence.

## NEW TRAINING CENTER IN TUNISIA



In December 2018, Sika Tunisia has inaugurated its new Sika Academy training center.

This dedicated space with a total surface of 200m<sup>2</sup> includes a presentation area with projection, a demonstration area and a relaxation area for coffee and lunch breaks.

Since the beginning of the year, 16 "Learn and Apply" sessions have been led by the commercial and technical teams at Sika Tunisia, which have welcomed more than 200 distributors, specifiers and contractor.

The images and program of the different trainings are presented on the Sika Academy page of the Sika Tunisia website and 18 additional sessions are already scheduled before the end of 2019.

## SIKA MOROCCO SEMINAR



Under the theme : "Corrosion Mitigation of Reinforced Concrete Structures in an Aggressive Environment" Sika Morocco has organized a seminar at the end of March 2019, which brought together more than 80 participants : contractors and specialized design offices, laboratories, administrations and representatives of the ministries.

With a one-day program, Sika has presented the latest innovations in repair and protection of structures such as cathodic protection, hydrophobic impregnation and corrosion inhibitors.

## SOUTH AFRICA ROAD SHOW



Sika's sales team hosted a fantastic roadshow in Newcastle at the Matuba Lodge in April 2019 to create Sika brand awareness and expand his footprint. Contractors, block manufacturers, hardware store members and individuals from the automotive industry were some of the people in attendance.

The evening started with an introduction of what Sika is about, and the various applications where Sika products can be used. The visitors then networked along the 4 tables set up per application field to allow them to ask questions, learn about new products, and to handle and use the products themselves.

One of the many highlights that evening was the live demonstrations of three of Sika's well-known products in the market. SikaPower-2900, a vehicle bumper repair kit, was applied to a pre-prepared bumper to show the ease of application and time-saving advantages of our system.

The next demonstration showcased Sikalastic-560, a premium liquid applied waterproofing system based on Sika Co-Elastic technology.

Then, last but certainly not least, a demonstration showing the application of Sika BlackSeal Torch-On, bitumen sheet waterproofing membrane.

The interest shown in our range of solutions was excellent, with attendees paying particular attention to the demonstrations.

The networking opportunity benefitted all who attended and the overall opinion of the event was that it was exceptionally successful and worthwhile.



## DAR BOUIDAR CHILDREN

On June 15, all the staff of Sika Morocco went to the children's village Dar Boudiar, near Marrakech.

The Children Dar Boudiar Association, created in 2010 by a Swiss, Hansjörg Huber, works on a daily basis to give a living environment to abandoned children.

The first village opened in 2015 and today welcomes more than 100 children, boys and girls. The goal is to offer them a home, a family, a community, a climate of affection to allow them to evolve in an environment conducive to fulfillment.

"We want to make our children strong citizens, give them an identity, pride and self-esteem that strengthen them in the conduct of their lives. That's why we invest above all in education. In addition to Moroccan Arabic, their native language, our boys and girls learn French from an early age. Once they are in school, is added the teaching of English. Each of them is encouraged to develop in all areas. Children take dance classes, learn a musical instrument and become familiar with farming activities. Our project is to allow them to follow apprenticeship training or studies. "

Sika Morocco is helping to finance an amphitheater in which children can give musical performances, theatrical performances ...

Sika employees have donated clothes, books, toys, medicines and money that will help the association to continue his work with children.





**CONCRETE**



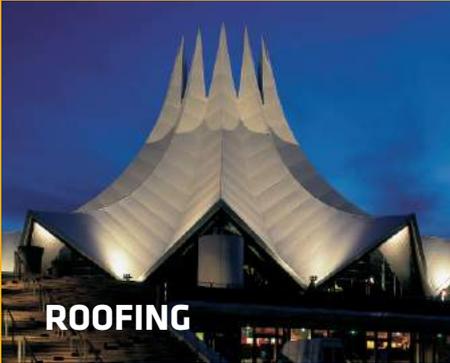
**REFURBISHMENT**



**SEALING AND BONDING**



**FLOORING**



**ROOFING**



**WATERPROOFING**



**INDUSTRY**

# INNNOVATION AND SUSTAINABLE SOLUTIONS FOR CONSTRUCTION AND INDUSTRY

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