

# WHAT'S NEW

AFRICA CUSTOMER MAGAZINE



## SIKA AT WORK

MOROCCO · SOUTH AFRICA · NIGERIA · ANGOLA · KENYA · UGANDA · IVORY COAST · CAMEROON · EGYPT · ETHIOPIA · ALGERIA · MOZAMBIQUE · TUNISIA

## SIKA NEWS & INNOVATION

NEW PRODUCTS  
DIGITALIZATION  
ACQUISITIONS  
SUSTAINABLE SOLUTIONS  
STAY SAFE

## SIKA EVENTS

COMMUNITY ENGAGEMENT  
SUSTAINABILITY  
REACH END USER  
CUSTOMER FOCUS  
SIKA ACADEMY IN AFRICA

# WHAT'S NEW #5 2021

## EDITORIAL



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# EDITORIAL

Dear readers in 2021 all over the world we continue to face the pandemic crisis due to COVID-19. This new reality that is now part of our routine, pushed us to change our habits, protect ourselves and others. We hope that all of you and your families are safe and healthy.

I would like to thank the whole Sika Africa team and their families for supporting Sika, supporting each other, and take part in local social activities.

During this challenging year we have continue to grow, and I am proud that our teams maintain a strategic focus on our growth. In Africa we remain resilient in the search for strategies and tools to be close to our stakeholders with the best solutions.

We increased our presence in Africa, both by hiring new employees to reinforce our teams and through the acquisition we did.

During 2020 we completed the acquisition of Modern Waterproofing. This acquisition aims to improve our footprint in Egypt with a new production center and to win market share on the Bituminous technologies. Due to the full range and quality of solutions we are able to cover even the other countries from Africa, besides Egypt specially in roofing and waterproofing.

We invested in new factories to enlarge our local production facilities and at the same time we made investments in R&D laboratories to be able to “speed-up” the development of more and faster solutions that are adapted to local needs in countries like Tanzania, Ivory Coast, Morocco, Nigeria, Mozambique, Cameroon...

We revisit our priorities and find opportunities to differentiate ourselves, including the implementation of sustainable measures to reduce energy consumption and reduce CO<sub>2</sub> emissions.

With investment in digital platforms, we were able to adapt very fast to this new way of working to keep the

JEAN DE MARTRES,  
Africa Area Manager



contact and support our partners, even in more demanding situations such as on-site support for solving challenges or defining specialized solutions without access to visit the jobsite!

Also, through these digital platforms, we reinforce our presence with the SIKA ACADEMY in AFRICA concept. We have been with more partners, dedicating more time and sessions sharing knowledge and supporting specific needs organized with all our best experts ... with just one click away!

Now, we invite you to know some of the key actions presented throughout this magazine, such as presence in emblematic projects, improving our supply-chain, implementation of strategies to reduce environmental impact, participation on social activities, support in measures to contain and combat the pandemic crisis, development of our communication platforms to support our partners.

We are confident that during this year we are stronger, more consistent and committed to deliver solutions and services with better value proposition, thanking all our partners for their trust and teamwork.

Keep safe and best regards.

MOROCCO

# AGADIR WATER DESALINATION STATION



## PROJECT DESCRIPTION

Initiated by the Department of Agriculture at the request of farmers and their associations, the project of the future desalination station is under construction in the province of Chtouka, at the level of the Douar de Douira, 30 km south of Agadir.

The first of its kind in Africa, this project aims to control the unavoidable deficit of water and offer a new alternative to the region.

With a budget of DH 4.4 billion, it is also a model of public-private partnership and result of a process of cooperation between Department of Agriculture and National Office of Electricity and Drinking Water to use land and infrastructure resources.

## PROJECT REQUIREMENTS

On the technical side, the jobsite managers at the ORM-VA Regional Development Office point out that the project consists of implementation of the best processes, technologies, and equipment currently in the field of seawater desalination and water distribution.

Solutions to be proposed will need all approvals and certificates, follow current standards, and meet the project's requirements for seawater resistance and compatibility of materials that will be in contact with water intended for human consumption.



## SIKA SOLUTIONS

Sika Morocco team provided support through technical assistance and closely monitored project needs. Various solutions were suggested to comply with criteria and quality requirements set by the institutes responsible for health and hygiene of storage of water for human consumption. Repair and protection solutions have approvals, certificates acc. with EN 1504 standard.

- SikaGrout® 212 Scellement M: High-performance, shrinkage compensated, cementitious grout
- SikaTop® 121 Surfaçage M: High-performance pre-dosed

hydraulic mortar for waterproofing, repair, surfacing and bonding

- SikaTop® 122 Réparation M: Pre-dosed hydraulic mortar reinforced by synthetic fibers for concrete repair for thick applications
- SikaTop® 209 Réservoir M: Flexible waterproofing micro-mortar based on hydraulic binder and synthetic resin
- 264 LANKOCAST SW20: Hydro-expansive joint
- SikaCor® 299 Airless: High-strength epoxy coating for steel and concrete
- 705 Clavex+: Shrinkage compensated cementitious grout for anchoring and base-plate grouting

## SIKA PRODUCTS

- SikaGrout® 212 Scellement M
- SikaTop® 121 Surfaçage M
- SikaTop® 122 Réparation M
- SikaTop® 209 Réservoir M
- 264 LANKOCAST SW20
- SikaCor® 299 Airless
- 705 Clavex+

- Master of Work: Aman EL Baraka
- Investors: ABENGOA
- Control Office: TECNITAS
- Design Office: NOVEC and CID Group
- Laboratory: L.C.I.S

## SOUTH AFRICA

# WASTE WATER TREATMENT WORKS



### PROJECT DESCRIPTION

Kwanobuhle, a big town in the suburbs of Uitenhage in Eastern Cape, had a waste water treatment works (WWTW) in need of refurbishment. Projects of this nature are often overlooked, however, given the magnitude of the impact on the community, the decision was taken to refurbish the WWTW.

Due to repair needs, WWTW was not achieving the full capacity. WWTW remained operational during refurbishment of the project. With this limitation, the actions were taken per stages for the 3 tanks and project planned for 8 months took 18 months, from January 2019 to July 2020.

### SIKA SOLUTIONS

Concrete spall repairs on the plant were done with 2 products: SikaTop® Armatec®-110 EpoCem® as a reinforcement corrosion protection and Sika MonoTop®-615 HB as a repair mortar. The aerators and digesters were lined with Sika MonoTop®-612 by trowel application, to reprofile concrete surfaces. Sikagard®-720 EpoCem®, a protective coating, was subsequently applied as a 2 mm thick layer to the Sika MonoTop®-612. Sikagard®-720 EpoCem® is a thin film sealer, made from epoxy and cement-based fillers, used on vertical and horizontal surfaces, a unique product that provides concrete protection and acts as a moisture barrier to allow for rapid application of epoxy coatings onto surfaces with high moisture content.

#### SIKA PRODUCTS

- SikaTop® Armatec®-110 EpoCem®
- Sika MonoTop®-615 HB
- Sika MonoTop®-612
- Sikagard®-720 EpoCem®
- Sikagard®-63 N
- Sikaflex® PRO-3
- Sikadur®-Combiflex® SG system

- Owner: Nelson Mandela Municipality
- Main Contractor: Ibhayi Contracting
- Engineers: Aecom

NIGERIA

# DAKKADA TOWERS



## PROJECT DESCRIPTION

Located in Akwa Ibom State, 21 storey Five Star Tower is 110 m high, has a construction area of 18'700 m<sup>2</sup>, an implantation of 48'200 m<sup>2</sup> and with a car park capacity for 500 cars.

With a total investment of 19 Billion Nira, the Tower is a landmark building and will reposition the State as a hub for global trade, to create an enabling environment for Oil Companies which may compel them to move their administrative base to the State.

The project will positively impact the State's IGR, building when occupied will provide employment for people of the State as well as boost the economic activities. The project so far has provided more than 2'000 direct and indirect jobs.

## SIKA SOLUTIONS

- Concrete: Sikament®-NNR to produce concrete and Sika® Antisol® E to cure and protect fresh concrete
- Waterproofing: For foundation stage Sika® Waterbar V-20 and Sika® Bituseal P4 were applied to keep water out of concrete structure
- Concrete repairs: Sikadur®-52 Injection where cracks needed to be repaired
- Tile adhesive system: SikaCeram®-50 applied in internal walls and floors; in wet areas SikaCeram®-205
- Grouting: SikaGrout®-212 used to fill gaps during installation of structural elements due to its major advantage in terms of precision, performance and easy to apply.

### SIKA PRODUCTS

- |                       |                         |
|-----------------------|-------------------------|
| ■ Sikament®-NNR       | ■ Sikadur®-52 Injection |
| ■ Sika® Antisol® E    | ■ SikaCeram®-50         |
| ■ Sika® Waterbar V-20 | ■ SikaCeram®-205        |
| ■ Sika® Bituseal P4   | ■ SikaGrout®-212        |

- Owner: Akwa Ibom State Government
- Contractor: VKS Nigeria Construction Ltd

ANGOLA

# NEW COVID-19 TREATMENT CENTER



## PROJECT DESCRIPTION

In March 2020, Angola started the specialized unit to COVID-19 in Girassol Clinic. This clinic located in Viana (near Luanda city) was prepared to receive COVID-19 infection cases to contain the propagation and limit Urgency and Health National Services exposure to this infection only in this specific place.

In an area of 3'600 m<sup>2</sup> of an old Sonangol logistics center, composed of 32 ships, 3 were adapted to house the hospital with capacity for 91 beds, 30 for critical patients.

The investment was done by the Oil Company Sonangol,

with 3 billion kwanzas and the work was carried out in record time of 27 days.

One of the special requirements presented by the contractor was to apply a floor suitable for clean rooms and a Sikafloor® system was presented as a solution.

## SIKA SOLUTIONS

Self-levelling flooring system with 2.5 mm total thickness.

- Sikafloor®-156 as a primer (0.5 mm)
- Sikafloor®-264 RAL 7035 as a wear and top coat (2.0mm)

## SIKA PRODUCTS

- Sikafloor®-156
- Sikafloor®-264 RAL 7035
- Sika® Primer-3 N
- Sikaflex®-11 FC\*

- Owner: Sonangol - Clínica Girassol
- Designs/Consultant: Sigma Group
- Controller: Dar
- Contractor: Casais
- Applicator: Chão Colorido



KENYA

## KIPETO WIND PARK



### PROJECT DESCRIPTION

Kipeto Wind Park project is located in Kajiado. As the second largest wind power project, it supplies 100 MW of clean renewable energy to the national grid. Project has 60 wind turbines and 17 km of 220 kV transmission line to evacuate the power to Isinya substation, in Kajiado County, started on January 2016 and completed in February 2020. The overall cost of the project was estimated in 17 MCHF.

Even with design changes at the project starting and delay of funding Sika met the requirements, such as C40 class workable concrete for foundations without affecting 28 days strength and high early strength grout for the harsh climate with high tensile resistance and compressive strength from 40 - 60 MPa after 24 hours.

### SIKA SOLUTIONS

SikaGrout®-3200 ZA was specified to meet client requirement of a grout for wind park projects with fast hardening, high early strengths, shrinkage compensation to apply under grouting base plates.

Concrete batching plant was set, and they required a high range water reducer to allow at least 1 - 2 hours retardation suitable for high temperature conditions like Sikament®-NNG and for curing Sika® Antisol® E was applied. Regarding the concrete repairs needed, Sikadur®-31 CF was used.

#### SIKA PRODUCTS

- Sikament®-NNG
- Sikadur®-31 CF
- SikaGrout®-3200 ZA
- Sika® Antisol® E

- Owner: Government of Kenya
- Contractor: China Machinery Engineering Cooperation
- Consulting Engineers: Worley Parsons

## UGANDA

# PARLIAMENT OF REPUBLIC OF UGANDA



### PROJECT DESCRIPTION

Uganda Building is located on Plot 16 – 18 on Parliamentary Avenue, in the administrative center of Kampala city. The building has a total surface of 75'900 m<sup>2</sup> with 3 wings and 7 floors consisting of 350 rooms, library and the chambers where votes are held and discussions about new legislation. The building was designed by “Peatfield and Bodgener” a British Ugandan architectural firm. Construction of the New Chambers at the north wing is ongoing, and it is designed to house 500 members of parliament and several office spaces.

### PROJECT REQUIREMENTS

Use and application of the epoxy resin based flooring system in the printing rooms of the parliament east wing with high bonding strength on the old concrete floors. With additional requirements considering the surface slip resistance, the glossy aspect and that was easy to clean.

### WHY SIKA

- We are a full solution provider with a global footprint
- We offer expertise and knowledge in terms of technical support
- We supply quality products acc. to specifications
- We can propose certified applicators who offer high quality application services

### SIKA SOLUTIONS

- Sikafloor®-161: 2 part, solvent free, low viscosity epoxy resin primer for concrete substrates and cement screeds.
- Sikafloor®-263 SL: 2 part self-smoothing and broadcast systems for concrete and cement screeds with normal -medium wear with a glossy finish, good chemical and mechanical resistance properties.

### SIKA PRODUCTS

- Sikafloor®-161
- Sikafloor®-263 SL

- Project owner: The Parliamentary Commission
- Architect: Ssentoogo and partners
- Engineer: Associate Consulting Engineers Limited
- Contractor: Roko Construction Limited
- Subcontractor: Concrete Flooring Solutions
- Sika organization: Sika Kenya Limited

IVORY COAST  
**PLAZA TOWER**



**PROJECT DESCRIPTION**

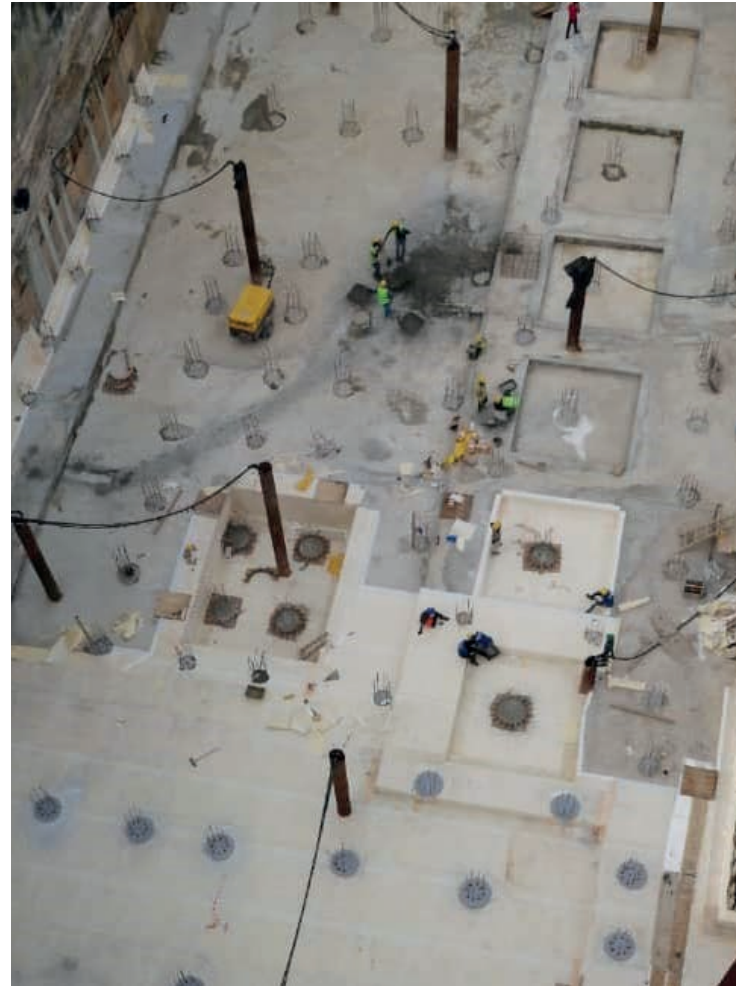
New Plaza Tower building based in the commune of Plateau in Abidjan, near the lagoon, is a 15-storey tower with a basement of 1'200 m<sup>2</sup> with a total investment of 15 billion CFA francs. The project was completed between 2019 and 2020 and was the first one where we applied SikaProof® in Ivory Coast.

Because of the proximity to the lagoon, the control office and contractor aimed for a reliable and efficient waterproofing system that offers a better performance guarantee than the other traditional systems.

Technical support was done on-site and on-line (due to COVID-19) with a close collaboration between Sika and Contractor. Main requirements requested by the customer and designer were waterproof basement concrete, salt resistance, UV resistance.

**SIKA PRODUCTS**

- SikaProof® A-08HC
- SikaProof® Tape-150 A
- SikaProof® ExTape-150
- SikaProof® A Edge
- SikaProof® Fixe Tape
- SikaSwell® A 2005
- SikaSwell® S-2
- SikaGrout®-234
- Sikadur®-31 DW



**SIKA SOLUTIONS**

SikaProof® A-08 HC is an embossed polyolefin FPO sheet membrane for pre-applied fully bonded below ground waterproofing of reinforced concrete structures.

SikaProof® A-08 HC has a membrane thickness 0.8 mm, is cold-applied without heat or open flames to prepared substrates or onto formwork before fixing reinforcement and concrete placement. The membrane has self-adhesive longitudinal strips for bonding overlap joints and is laminated with a unique sealant and a non-woven fleece backing layer which creates a bond with the cast concrete.

- Owner: M. Kharaky
- Controller: Veritas
- Contractor: CONSORTIUM D'ENTREPRISE (CDE)
- Applicator: SME

CAMEROON

# TAXES HEAD OFFICE (DGI)



## PROJECT DESCRIPTION

DGI Headquarter is a high-rise building for offices in Warda -Yaoundé with 19 floors above the ground and 3 underground. The total investment is 38 MCHF. The works started in 2017 and are planned to finish this year.

Challenges were faced due to the location in city center which made it more difficult to install the ready-mix concrete plant and the fact of being close to a drain, so the subsoil was saturated with water.

Several Sika solutions were selected accordingly to their needs, such as watertight mass concrete for below ground structure, interior parking with a high resistance to wear coating, with the non-slip aspect and exterior ramp with

high resistance to wear coating, with non-slip aspect and UV resistant.

## SIKA SOLUTIONS

C25/30 structural concrete was done with a water reducer and retarding admixture (Plastiment® BV-40), for underground parts was combined with a water repellent, Sika® Hydrofuge FC.

For the indoor parking (6'500 m<sup>2</sup>) was suggested a 4 mm slip-resistance floor system Sikafloor® MultiDur EB-24, and for the exposed outdoor ramp (700 m<sup>2</sup>) a 4 mm slip-resistance Sikafloor® Multiflex PB-55 UV.

### SIKA PRODUCTS

#### Sikafloor® Multidur EB-24

- Sikafloor®-161
- Sikafloor®-263SL
- Sikafloor®-264
- Sika® Extender T
- SikaQuartz 0.1-0.3/0.5-0.9mm

#### Sikafloor® Multiflex PB-55 UV

- Sikafloor®-161
- Sikafloor®-376
- Sikafloor®-377
- Sika® Extender T
- SikaQuartz 0.1-0.3/0.5-0.9mm

- Plastiment® BV-40
- Sika® Hydrofuge FC
- Sikalastic®-850W
- SikaCeram®-80i

- Owner: DGI
- Designer/Consultant: BUBAN NGU/DESCO, INTEGC

- Control Office: BUREAU VERITAS
- Contractor: CFHEC

- Applicator: Oilfield Marine & Industrial Works (OFMIS)
- Concrete plant: CFHEC

EGYPT

# REFRIGERATED TRUCKS



## PROJECT DESCRIPTION

Located in 10<sup>th</sup> of Ramadan Industrial City, Reftruck Egypt is the market leader in sandwich panel manufacturing for insulated boxes equipped with refrigeration units as well as insulated panels for cold rooms serving a wide variety of customers in the food and beverage industry.

They are innovators on seamless fiber glass insulated truck bodies. The body consists of 2 layers of polyester & multi-layer fiber glass with stripes of polyurethane foam having a density of 42.5 kg/m<sup>3</sup> in between produced in panels with different sizes. Each panel manufactured is bonded together to form the box shape.

Challenges were faced during the project, such as:

- Proposed adhesive must comply with the manufacturing process schedule
- Fast curing material at room temperature
- Fast delivery of material

## PROJECT SPECIFICATIONS

- Required adhesive must be thixotropic, with good non-sagging properties
- Short press time
- High tensile strength, with good gap filling properties

## SIKA SOLUTIONS

Technical support and material testing before supplying was key as part of Sika solutions offer.

- SikaForce<sup>®</sup>-422 L45 and SikaForce<sup>®</sup>-010 are 2 component polyurethane adhesive. When mixed, the product has an open time of 45 minutes.
- SikaForce<sup>®</sup>-422 L45 is high viscous, rigid and thixotropic with excellent non-sagging properties. It can be applied manually using a trowel and was used for the bonding of side walls and roof of refrigerated truck trailers.

### SIKA PRODUCTS

- SikaForce<sup>®</sup>-422 L45 (former SikaForce<sup>®</sup> 7722 L45)
- SikaForce<sup>®</sup>-010 (former SikaForce<sup>®</sup> 7010)

■ Owner: Reftruck Egypt

ETHIOPIA

# BREWERY CONCRETE REHABILITATION



## PROJECT DESCRIPTION

Meta Abo Brewery factory based on the Industrial facilities in Sebeta completed expansion with \$119m bottling line.

To re-launch the Meta brand, an increase of the capacity on brewery production was needed to provide a strong platform for the future.

This factory is based in an industrial area exposed to an aggressive environment. Main intervention was done in a 57 years old concrete soffit slab damaged, with corroded exposed rebar, for that rebars corrosion protection with chemical resistance and R3 class acc. EN 1504 concrete repair mortar were required. All the interventions were done with a tight schedule from January to March 2020, because factory didn't stop production during works.

Concrete soffit slab was damaged due to accelerated ageing due to the industrial environment. Part of the slab reinforcement rebars were exposed to corrosion and peeling of the concrete cover.

SikaTop® Armatec®-110 EpoCem® was applied as rebars corrosion protection and SikaRep® N as a structural repair mortar acc. to consultants' requirements.

Consultant knew Sika solutions and requested the specific products listed. Sika team supported closely the applicator providing training on the jobsite for the preparation works and Sika applications.

## SIKA SOLUTIONS

### SIKA PRODUCTS

- SikaTop® Armatec®-110 EpoCem®
- SikaRep® N
- Antisol® S

- Owner: Diageo plc/Meta Abo Brewery Share Company SC
- Designer/Consultant: Aurecon
- Supervision: Aurecon
- Contractor: Varnero Construction
- Applicator: Tiglu Kassayae General Contractor

ALGERIA

# MASCARA BRIDGE REINFORCEMENT



## PROJECT DESCRIPTION

RN 97-PK SIG bridge was built in 1956 on the national road N° 97 at the level of the commune of CHORFA -SIG Wilaya in the Mascara city. Even suffering maintenance, additional reinforcement was needed to comply with overload due to traffic increase over the years. The visual degradation and risk of collapse of the bridge, lead Public Construction Department of Mascara to assign the expertise and work related to the reinforcement structure to the company Algerian Infrastructure and Construction – AIC. Estimated value of project of 33 million DA. As an important construction in a strategic location, deadlines were imposed by the Ministry to limit traffic disruptions. Work started in mid 2019 and was completed in beginning of 2020.

## SIKA SOLUTIONS

Concrete structures required repair and reinforcement to increase service life, increase structural behaviour and architectural identity.

Concrete was done with Sika® ViscoCrete® TEMPO-10 a high range water-reducer/superplasticizer to reinforce the pile by jacketing and repair damaged areas. Micro-concrete was used to fill pavement joints covers done with Sika® Metafibres ViscoChape and Sika® Fiber 12-34. Structural reinforcement was designed in harmony without overload the structure, with high mechanical performance carbon fiber systems:

- Sika® CarboDur® S plates are bonded to the structure with Sikadur®-30 (epoxy resin) to increase flexural and tensile strength
- SikaWrap®-230 C is a fabric bonded to the structure with Sikadur®-300 (epoxy resin) to increase the shear and compressive strength of the stacks

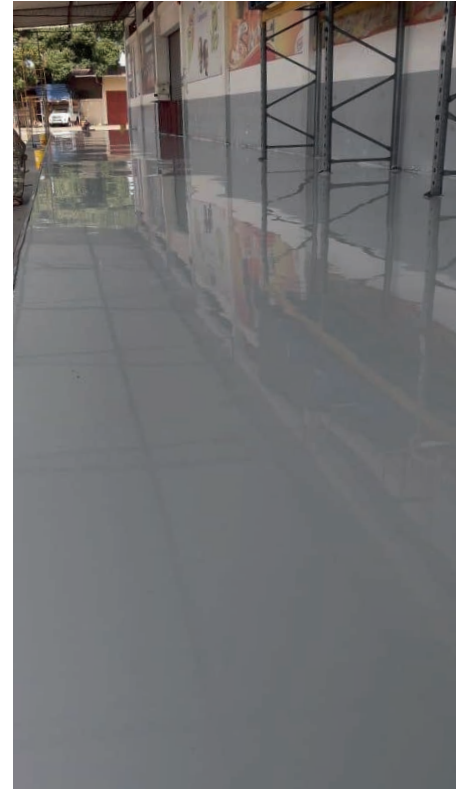
### SIKA PRODUCTS

- Sika® Fibre 12-34
- Sika® Metafibres ViscoChape
- Sika® ViscoCrete® TEMPO-10
- Sikadur®-300
- SikaWrap®-230 C
- Sikadur®-30
- Sika® CarboDur® S 1012

- Owner: Public Construction Department of Mascara
- Design office: AIC
- Supervision: National org. technical control of construction of Oran
- Contractor: AIC

MOZAMBIQUE

# FOOD & BEVERAGE INDUSTRIAL FLOOR



## PROJECT DESCRIPTION

Tropigália is a food distributor located in Maputo, Mozambique. Flooring requirements and quality delivered are key in this industry. For this reason, we were challenged to present our solutions.

This project was evaluated in 400 kCHF with a schedule from 2020 to 2021.

Works were done in an industrial area with 20'000 m<sup>2</sup> flooring application. Being a food and beverage distributor, during the surface preparation the dust levels had to be minimized. Tropigália was active during interventions, for that reason reduced areas of work were defined in order to keep going with the operations and maintaining the high quality of the job and complying all the customer requirements.

## SIKA SOLUTIONS

For industrial floor a 2 mm thickness Sikafloor® system was applied with Sikafloor®-161 (primer) followed by Sikafloor®-264 (top coat).

Construction joints were done with Sika® Backing Rod and Sikaflex® PRO-3.

With uneven surface and/or with cracks they were managed with application of primer (Sikafloor®-161) mixed with different fillers, related to the thickness to reach: Sika® Extender T for thinner ones and Sikafloor® 932 for thicker ones.

### SIKA PRODUCTS

- Sikafloor®-161
- Sikafloor®-264
- Sika® Extender T
- Sikafloor® 932
- Sikaflex® PRO-3
- Sika® backing rod

- Owner: Tropigália, Lda
- Applicator: bSolid Mozambique



TUNISIA

# FACADE FINISHING WITH MONOMAX



## PROJECT DESCRIPTION

Following the acquisition of Parex, Sika Tunisia organized several trainings for key market players. Together with STRAM, a Sika certified applicator, particularly in the area of facade finishing, 3 key projects were developed with a total area of more than 13'000 m<sup>2</sup>:

- Office building – Les Berges du Lac: 2'500 m<sup>2</sup>
- STEG – Radès: 7'000 m<sup>2</sup>
- Stations RFR (Tramway): 3'800 m<sup>2</sup>

Product selection main advantages:

- For architects - work with an aesthetically pleasing, durable and waterproofing solution.
- For applicators - work with an easy to use and apply high quality render

## SIKA SOLUTIONS

- ParexLanko Monomax is a OC3 heavy-duty single-layer render for waterproofing and decoration of exterior and interior vertical walls in masonry or concrete.

### SIKA PRODUCTS

- ParexLanko Monomax

Office building – Les Berges du Lac  
 ■ Owner: Mezghani Real estate  
 ■ Architect: AWA Partners  
 ■ Applicator: STRAM

Stations RFR (Tramway)  
 ■ Owner: RFR  
 ■ Applicator: STRAM

STEG - Radès  
 ■ Owner: Radès Electric power station  
 ■ Architect: IDOM Plus et Mme Imen Landolssi  
 ■ Applicator: STRAM

## SIKA AFRICA

# SIKA FIBERS FOR CONCRETE AND MORTAR

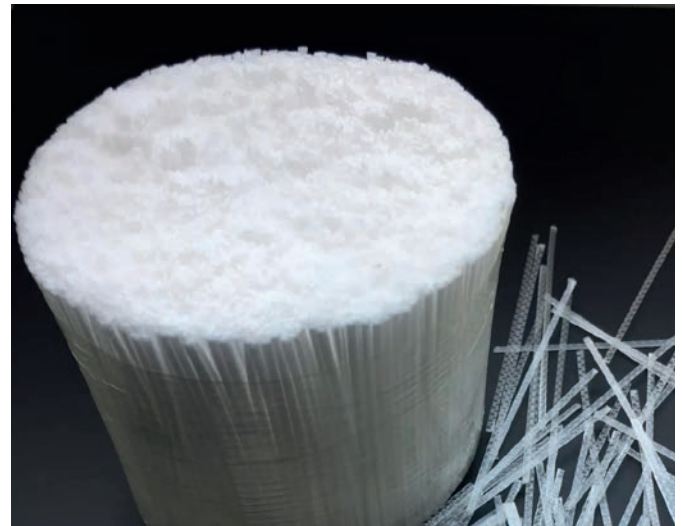
Concrete fibers have a huge amount of applications in construction that will bring benefits in fresh and hardened concrete but as well in other points like save time, reduce costs and others.

Fibers are an ideal ingredient to improve performance and durability of concrete and mortar.

Sika is the leading company for Fiber Reinforced Concrete (FRC) solutions. Our global footprint and new fiber produc-

tion facilities give us the opportunity to support projects in all regions, including Africa.

The main brand for fibers is SikaFiber®. There are other global brands you may know in the SikaFiber® family, like SikaFiber® Force, SikaFiber PPM, Sika® Crackstop, Enduro®, Novocon®, Novomesh®, Fibermesh, Fibercast®...



### MAIN BENEFITS OF SIKA FIBER REINFORCED CONCRETE

- Less cracking due to early-age shrinkage
- Better cohesion of the fresh concrete
- Homogeneous distribution of the fresh concrete
- Higher flexural and shear strength
- Improve load capacity and ductility
- Increase toughness and abrasion resistance
- Increased fire resistance
- Replace/ partially replace traditional reinforcing steel
- Joint extension

### KEY APPLICATION BENEFITS

- Integral reinforcement
- Increased safety
- Less opportunities for callbacks

- Long term durability increase
- Reduction in labor for placement of reinforcement
- Save time in the construction process
- Reduce costs
- Potential to reduce CO<sub>2</sub>

### SELECTING THE RIGHT FIBER

The first step in selecting the right fiber is to understand what type of fiber is required for which application and for that we need to understand what you are looking for to improve in your structure.

Concerning standards for FRC the main ones are ASTM C 116 and EN 14889. Acc. to European Standards, a micro and macro fiber is distinguished basically by the diameter.

We can see some of the main key characteristics that would help to do the right selection:



**Steel fibers**

- Enhance concrete in its hardened state
- Provide ultimate performance under intense loading conditions



**Synthetic macro fibers**

- Increases flexural strength
- Increases impact resistance
- Increases durability (no corrosion)
- Increases tensile strength



**Synthetic micro fibers**

- Reduces plastic shrinkage cracks
- Increase homogeneity
- Reduces plastic settlement
- Reduces bleeding
- Alternative to crack control mesh

**GUIDE TO SUPPORT ON SELECTION**

State of concrete or mortar	Effect/property improvement	Recommended fiber type
Fresh	Homogeneity /Rheology improvement	Micro-synthetic fibers
Fresh	Reduce rebound of shotcrete	Micro-synthetic fibers
Up to 24 hours	Early-age cracking reduction	Micro-synthetic fibers
1-2 days	Reduction of cracks induced by restraint or temperature	Micro & Macro-synthetic fibers
28 days hardening or more	Improvement of fire-resistance	Micro-synthetic fibers
28 days hardening or more	Transmission of external forces	Macro-synthetic & Steel fibers

**LOCAL AVAILABILITY**

Ask Sika information about our local product range: Sika Fiber PP12/18, Sika® Crackstop, SikaFibre® Anti-fissure, Sika® Fibermesh®-300, SikaFiber® Force 50/60/48, SikaFiber® Enduro® 600, SikaFiber® Enduro® Mirage and others. Local technical support is available to our customers. As a multi-discipline construction materials company, Sika in Africa offers a full range of solutions for concrete including admixtures, curing agents, mould release agents, floor hardening and coatings, joint sealants, concrete protection and now a new full range of fibers.

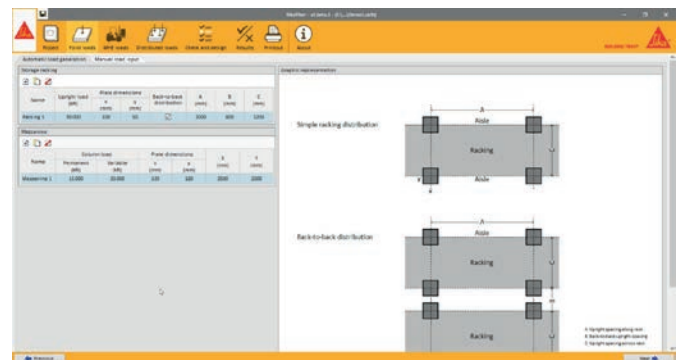
**DIGITAL TOOLS TO SUPPORT**

Sika has different tools to support and in the case of Fibres Sika in Africa recently introduced the new SikaFiber® SOFTWARE FOR SLABS ON GROUND. The new SikaFiber® software is a desktop-based tool, aimed at professionals to quickly calculate fiber reinforced concrete for slabs on ground. The calculations are based on 2 globally recognised standards

- Concrete Society Technical Report 34 - Concrete Industrial Ground Floors (4th Edition, printed March 2016) ISBN: 978-1-904482-77-2
- American Concrete Institute 360R-10 - A Guide to Design of Slabs-on-Ground (Ninth print, March 2016, errata June 23rd 2016) ISBN: 0870313711 / 9780870313714

Please use the link to have access to the program:

<http://webservices.web-app.sika.com/DTI/SikaFiber-Software-1.0.zip>



SIKA AFRICA

# SIKA DIGITAL TOOLS

MUCH MORE THAN PRODUCTS ONE CLICK AWAY | TO SUPPORT YOU, FOR FREE!

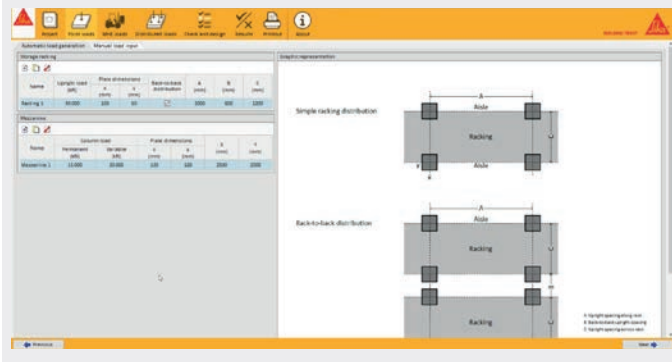
## SIKAFIBER® SOFTWARE

Sika has developed new software to estimate the amount of SikaFiber® required for slab on grade.

- Free licensed software
- Complex calculations in minimal time
- Calculate with two recognized standards
- User-friendly interface
- Available in multiple languages
- Benefit from the SikaFiber® global range
- Sika technical support

**SIKAFIBER® Software – LEARN MORE & DOWNLOAD**

<http://webservices.web-app.sika.com/DTI/SikaFiber-Software-1.0.zip>



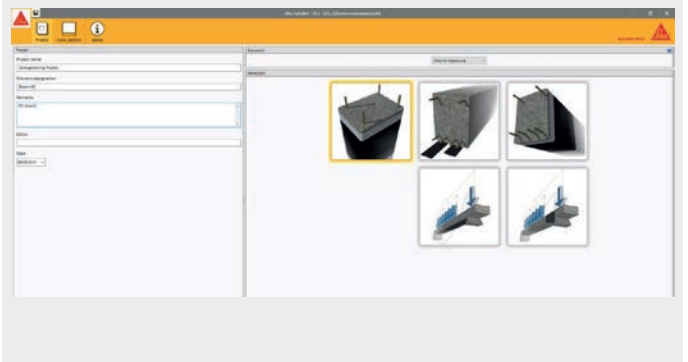
## CARBODUR® FRP DESIGN SOFTWARE

CFRP based solutions consist of CFRP plates and rods, plus structural epoxy resin-based adhesives for structural strengthening and long-term durability in service.

- Free software for advanced structural design
- Full range of Sika Structural Strengthening Systems
- Complex calculations quickly
- ACI 440.2R-17, ACI 318-14, TR55, EC2 and local codes
- Updated on a regular basis
- User-friendly interface

**CarboDur® FRP Software – LEARN MORE & DOWNLOAD**

<https://carbodur.web-app.sika.com/download/sikacarbodur.zip>



## SIKA ANCHORFIX® CALCULATION SOFTWARE

Sika AnchorFix® Calculation Software for chemical anchors (threaded rods and rebars) based on EN and US standards and is available for free downloading.

- Design of anchors and post installed rebar connections
- Multiple languages (currently 10 available)
- 3D graphic is a visual aid built from all user inputs
- Metric and fractional (imperial) system units
- Upgradeable via Internet Connection

**Sika AnchorFix® Software – LEARN MORE & DOWNLOAD**

[http://www.2kupdate.net/Download/Sika\\_AnchorFix\\_Setup.zip](http://www.2kupdate.net/Download/Sika_AnchorFix_Setup.zip)



## CONCRETE SIKA MIX DESIGN TOOL

Complete Concrete Mix Design tool to improve our technical support.

- Creation of a concrete mix design by raw material selection from the data base
- Design of combined aggregate grading curves
- Prediction of concrete compressive strength
- Cost calculation of concrete
- Display of all fresh and hardened characteristics.
- Print report possible
- Can be used in the office or out-side
- New developments are already available



EGYPT

# MODERN WATERPROOFING ACQUISITION

It is an honor to claim that Egyptian market in the field of construction is very promising because of its solid firm base. The strength and endurance of the Egyptian market were put to test in the COVID-19 global pandemic, which Egypt managed to withstand successfully.

Modern Waterproofing (MWP) is based in Cairo with a production facility in Badr City which is logistically ideal close to Cairo and New Administrative Capital, offering a wide range of products, which are APP/SBS bituminous modified membranes and bituminous liquids. Sika acquisition of MWP will extend and complete Sika Egypt's product range. The production site will strengthen local supply chain and technical know-how as well as offer possibility to efficiently serve other African countries.

MWP obtained numerous certificates and approvals due to its reliable excellence, starting from Egyptian Organization for Standards & Quality (EOS) that ensures standardization and industrial metrology, CE mark that ensures products meet necessary general safety and quality measures, ISO 14001 confirms loyalty to effective environmental management system (EMS), ISO 18001 that is responsible for health and safety management systems and lastly



ISO 9001 that guarantees product quality management system.

MWP and Sika Egypt are confident that with this acquisition, Sika has expanded its product portfolio for the waterproofing and roofing markets with adding production expertise in bituminous technology consequently further strengthening our leader position in construction chemicals.



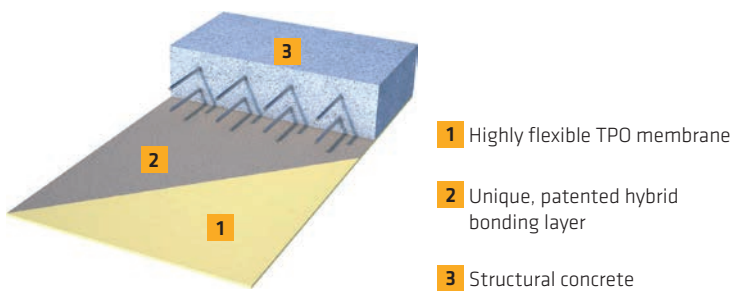
SIKA AFRICA

# SIKAPROOF A+ - 2ND GENERATION WATERPROOFING SYSTEM

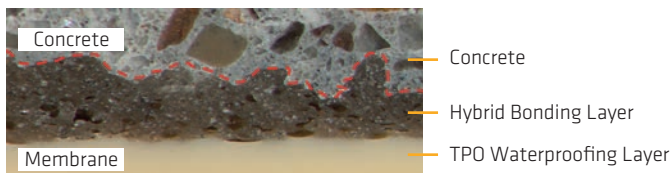


## WHAT IS SIKAPROOF®

SikaProof® system is a time saving and sustainable waterproofing solution, based on a TPO (polyolefin) sheet membrane pre-applied and post-applied, fully bonded below ground waterproofing of reinforced concrete structures. As pre-applied, where concrete is poured onto the waterproofing membrane and as post-applied, where the sealing membrane is applied to the hardened concrete. SikaProof® A+ is a second generation of fully bonded Sika systems developed based on a high-level technology that combines:



The new DUAL BOND technology of SikaProof® A+ creates a mechanical and adhesive bond with fresh concrete.



## SIKAPROOF® APPLICATIONS

Can be used for damp-proofing, waterproofing and concrete protection for basements and other below ground concrete structures against ground water ingress.

Suitable for use on:

- Reinforced concrete base slabs
- Reinforced concrete walls with single and double-faced formwork
- Extension and reconstruction works
- Prefabricated structures



## CHARACTERISTICS/ADVANTAGES

- Pre-applied: Fixed before placing reinforcement and casting concrete
- Dual bond innovative technology
- High flexibility and crack-bridging capability
- Resistance to lateral water migration
- High watertightness tested acc. to various standards
- Fully and permanently bonded to reinforced concrete
- Resistant to aggressive conditions in natural ground water and soil
- Easy to install with fully adhered joints
- Temporarily resistant to weathering and UV exposure
- Can be combined with other approved Sika® systems

MOROCCO

# SIKA SURFACE SANITIZER



Due to the COVID-19 pandemic that affects the whole world, the demand to keep the workplaces clean and disinfected lead to the development of a natural solution. That's how we thought about launching a new kind of product and Sika Morocco has launched the new Surface Sanitizer to eliminate the virus from various surfaces such as vehicles, furniture, computers, phones and other.

The new Sika® Surface Sanitizer is the first spray for domestic and industrial use.

The Sika® Surface Sanitizer is alcohol based, odourless and it comes in a 400 ml spray can.

It is effective on a wide range of surfaces such as plastic, different fabrics or textiles, dashboards, touchscreen, door handles, painted metal and other.

This product was quickly delivered through distribution networks, gas stations, large DIY stores and supermarkets.



SIKA AFRICA

# SIKA FIRE PROTECTION SYSTEMS

Fire has been a fascinating element for thousands of years and many achievements in the history of mankind were only possible with its help. Although it can hurt us and destroy achievement of decades within minutes.

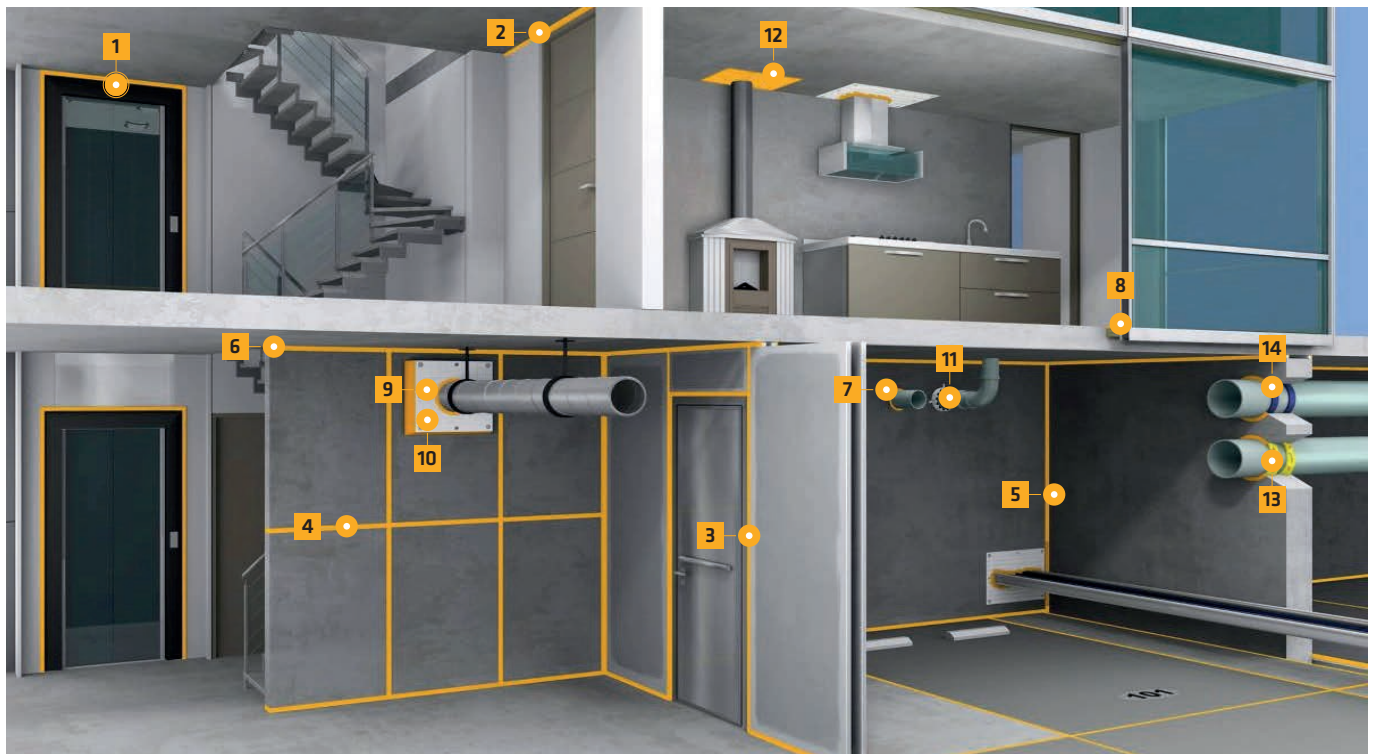
Sika provides comprehensive solutions where fire resistant construction is required such as commercial, public, and residential buildings, steel structures and others.

Fire resistant sealants, fillers and backing materials for linear seals as well as solutions for penetration seals enable safer buildings and infrastructure to be built.

Sika products comply with the latest relevant standards and can be used for a wide range of fire protection uses.



## SIKA'S FIRE PROTECTION SYSTEMS MAY SAVE LIVES AND PROTECT PROPERTY



- 1 Sikasil®-670 Fire**  
Fire resistant silicone sealant for linear seals in walls and floors
- 2 Sikacryl®-621 Fire**  
Fire resistant acrylic sealant for service penetration and joint seals
- 3 Sikacryl®-620 Fire**  
Fire resistant acrylic sealant for linear seals and penetrations
- 4 Sika® Backer Rod Fire**  
Fire resistant mineral wool-based backer rod system for linear seals
- 5 Sikaflex®-400 Fire**  
Fire resistant PU sealant for linear seals and penetrations
- 6 Sika Boom®-400 Fire**  
Fire resistant expansion foam for linear seals
- 7 SikaSeal®-623 Fire**  
Fire resistant intumescent sealant for penetration seals
- 8 Sikacryl®-624 Fire**  
Fire resistant acrylic sealant/ coating for floor and wall intersections
- 9 Sikacryl®-625 Fire**  
Fire resistant ablative coating for SikaSeal®-626 Fire Board
- 10 SikaSeal®-626 Fire Board**  
Fire resistant coated protection board
- 11 SikaSeal®-627 Fire Collar**  
Fire resistant pipe collar
- 12 Sikacrete®-630 Fire**  
Fire resistant load bearing compound
- 13 SikaSeal®-628 Fire Wrap**  
Fire resistant pipe wrap
- 14 SikaSeal®-629 Fire Wrap**  
Fire resistant pipe wrap on a roll



## INTERNATIONAL STANDARDS AND CLASSIFICATIONS FOR FIRE TESTING

Sika passive fire protection solutions comply with most relevant national and international standards (including EN, UL, EAD (ETAG), ASTM, AS, Certifire), in order to confirm

that they meet the highest fire resistance requirements and consequently can help save people's lives.

## REACTION TO FIRE AND RESISTANCE TO FIRE

"Fire testing" can be a very complex topic – the differences between 'reaction to fire' and 'resistance to fire' can frequently cause some confusion.

### REACTION TO FIRE

- Describes how a material contributes to the development and spread of a fire. Reaction to fire is determined for a single material or product such as a wall covering or joint sealant, and not for a system or section such as a wall including the linear joints and any penetrations.
- In Europe reaction to fire is now classified acc. to European Standard EN 13501-1, which is gradually replacing older national standards such as the German DIN 4102.

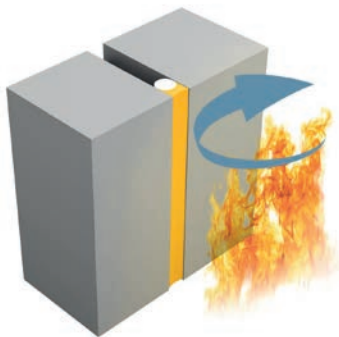
### Euro class Requirement

Euro class	Requirement
A1	No contribution to fire
A2	Insignificant contribution to fire
B	No spread of fire and very limited contribution to fire
C	Very limited spread of fire
D	Limited spread of fire
E	Acceptable reaction to fire in case of a very small flame
F	Not passing requirements for classes A1-E

### RESISTANCE TO FIRE

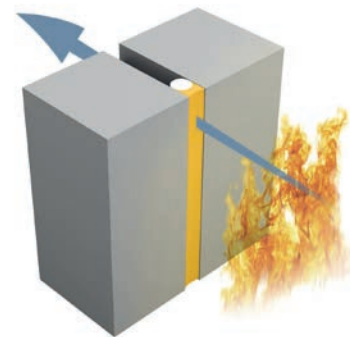
- Describes the ability of a building element to prevent the passage of heat and flames from one side to another. Such building elements are walls or floors including any joints and penetrations, windows and doors etc. This means that not only a specific material or product, but an entire system or building section has to be tested.

- There are different national and international test standards and classification schemes for fire resistance, but most of them follow the same principle: The building element or component for testing, including all the service penetrations, joints, doors, windows and joint sealant in and around them, is fixed into a test frame which is then attached to a test furnace.
- 2 parameters are relevant for most fire resistance tests: Integrity and Insulation.



#### E - Integrity

Integrity (E) is a building element's capability – when exposed to fire on 1 side – to prevent the passage of flames and hot gases to the unexposed side.



#### I - Insulation

Insulation (I) is a building element's capability to maintain its thermal insulation function when exposed to fire on 1 side. Most standards allow a maximum of 180°C rise on the unexposed side.

SENEGAL

# COMMUNITY ENGAGEMENT: VILLAGE PILOTE



The Village Pilote is an Afro-European association that, since 1994, defends children’s rights and gives them tools for development. Sika Senegal is committed to carry out the entire waterproofing works to ensure a better living environment for these children.

The project is based on the idea of Sika and its employees to offer the product and application of it. Area of roofs to cover was around 800 m<sup>2</sup>. This liquid applied membrane is a very easy solution to apply and efficient to waterproof roofs, the application was a success.

At the same time Sika Senegal launch a promotion that each bucket of Sikalastic® Color sold will revert in 3 meals offered to children of the village

### Why Sikalastic® Color to waterproof roofs?

Sikalastic® Color is a liquid applied membrane, 1 component, water based, elastic coating in form of emulsion, with a creamy consistency that after curing forms a flexible, long term resistant waterproofing membrane.

ALGERIA

# WE DON'T THROW AWAY PLASTIC CAPS!

For more than a year, Sika contributed to finance medicines and supplies for the Algerian children suffering from “Xeroderma Pigmentosum”, called “Children of the Moon”.



These children have an excessive sensivity to UV with a greater risk of developing skin cancer. Through an organized collection of plastic caps, Sika employees and families joined this movement across country, initiated by young volunteers who quickly became a committed community spread over Algeria and adopted by charity associations and others.

They sort caps and resell them by kg through a foundation to recycling companies to help the Children by purchasing protective clothing, sunscreens, medicines.

Recycling companies grind the caps to obtain aggregates that represent a raw material for industrialists that allows the manufacture of new objects: pens, toys, etc. Caps accepted are those for bottles of water, milk, oil, fruit juice, soda, liquid detergents.

Is a great honour for Sika families to be part of the initiative to help the children as well as the environment.

SOUTH AFRICA

# COMMUNITY ENGAGEMENT – SIKA SPIRIT

Nelson Mandela’s birthday is celebrated internationally on 18 of July, to commemorate this stalwart and all that he stood for. Organisations, families, and communities all adopt the spirit of giving, by making donations to those less fortunate.

COVID-19 and its associated lockdown introduced extra difficulties in the works of 2020! But this didn’t stop Sika to find a way to give a donation to 8 schools in South of Durban.

A huge donation of 500’000 Rands of 43 different Sika products in 3 truckloads were delivered on 29 July 2020 to the schools to assist them from basement to roof works. This was the ideal support to them to keep their buildings in good shape and adequate for effective learning.

School principals received donations with open arms. They assured Sika - who excitedly anticipate seeing the fruits of their gifts - that they would be put to good use.

The youth of today are the leaders of tomorrow, Sika is proud to invest in education of our children. Sika team left with a content heart, knowing that this act of will genuinely make a difference.



MOROCCO

# SIKA ECO-RESPONSIBLE COMPANY - PHOTOVOLTAIC PROJECT

This project is located at Sika Morocco Headquarters at Bouskoura. The PV panels were installed on the roof, facing south for perfect exposure.

Sika’s willingness to contribute to the reduction of greenhouse gases is part of a sustainable development policy that combines environmental virtue with economic relevance.

Sika is proud to participate in this environmental commitment movement in Morocco, thanks to a self-production of energy from renewable resources.

**Key figures:**

- Operated area: 373 m<sup>2</sup>
- Installed power: 71 kW
- Estimated production: 120’000 kWh/year
- CO<sub>2</sub> avoided: 89’500 kg/year
- Self-production level: 45%



ALGERIA

# SERVICE VAN TO REACH ALL END USERS



In order to expand its territory and to reach end users, Sika El Djazaïr launched an operation in partnership with its distributors to reach the hardware retailers which are estimated to have more than 100'000 points of sale in Algeria. This simple and effective operation consists in organizing a daily van rotation "Cash Van" acc. to a pre-established route with standard ordering.

The distributor's salesman provides Sika products to retailers highlighting the delivery service and the regularity of rotation. Procurement at retailers' level and availability of the products/solutions are assured and fixed by this way. With this "win-win" approach, Sika El Djazaïr has succeeded in standing out and proving once again its expertise in the technical field, improved our service, our distributors service too and optimize the deliveries to the end user.

SOUTH AFRICA

# AB INBEV FOOD AND BEVERAGE SEMINAR



In 2020, Sika South Africa held a Flooring and Roofing Seminar for AB InBev, the largest beer company in the world.

It was a great honor for Sika South Africa to host a Seminar for such a prestigious company. It took place at Sika's Johannesburg branch in Kempton Park in the Kaspar Winkler conference room. Workshop was held to show and discuss the solutions Sika has for food and beverage industry.

The seminar was well attended by employees of AB InBev and were conducted by our best experts. Demonstrations were done of all solutions discussed, to give attendees a clear understanding of products and how they are applied. Industrial flooring and wall coatings technology, design,

selection, planning, details, execution and maintenance of: Cement hybrid floors, Epoxy floors, Wall coating. Roofing systems technology, design, planning, execution, details and maintenance of: Single Ply Roofing Systems, Liquid Applied Membrane (LAM) Systems for new and refurbishment of roofs.

In addition, an independent company ACO, who are drainage experts, presented and demonstrated their solutions on Drainage systems specific to this market.

All attendees agree that was a day well spent to ensure that now they are well informed to make the right decisions when choosing the best system for the job.

**Sika is a full range supplier for Food & Beverage Industry.**

SIKA AFRICA

# SIKA ACADEMY IN AFRICA WEBINARS

## NEW REALITY · NEW OPPORTUNITY · NEW CHALLENGES

SIKA ACADEMY IN AFRICA TESTIMONY



**Touayba B.** | Morocco

Webinars allow us to keep in touch with customers and specifiers and strengthen ties with them in these difficult times.



**Magdalyne Tanui** | Kenya

Pandemic taught us to think out of the box to continue to be close to customer and share knowledge.



**Sohaila Ehab** | Egypt

Sharing knowledge with an easy approach to customers creating new trustable platform for learning and delivering technical solutions.



**Telma Rey** | Angola

Sika Academy webinars makes everything available with just a click away.



**Walid Souai** | Tunisia

Through webinars, we aim to promote our solutions, engage new people, bring qualified leads, and turn those viewers into highly valuable customers.



**Nacim Hedimi** | Algeria

Sika always finds a way to support our stakeholders that's how Sika is Building Trust.



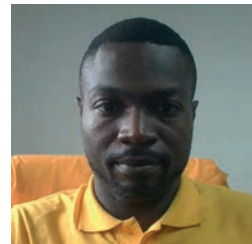
**Lana Akar** | Senegal

Sika Academy Webinars are a digital tool with a great potential to help us be more efficient, more attractive to customers and this will allow a better relationship.



**Douraid Azibi** | Tunisia

Sika Academy opens its doors to customers and partners, training on several topics in a pleasant atmosphere and sharing knowledge spirit. Here we share Sika innovations.



**Nkwengwa W.** | Cameroon

Sika Academy Webinars is a new and essential tool to support customers during this period of health crisis and challenging us to focus more on digital tools.



**Adeyinka Oginni** | Nigeria

Sika Academy Webinars improved our daily communication about product range to our customer making them more confident.



**Erykah Pallangyo** | Tanzania

Sika Academy Webinars allowed us to pay more attention to details and we found out that customers were even sharing more things with us.



**Fitsum Nigussie** | Ethiopia

It helps us to continue customer support in such disconnected environment and support us to enhance our knowledge and business portfolio.



**Adidjath Salifou** | Ivory Coast

With webinars we found a new way to support our customers and engage them. We found more efficient ways to communicate.



**C. Cardeano** | Mozambique

Sika Academy webinars is all about people, teamwork and nothing is stronger than that.



**Nadine S.** | South Africa

Being able to consistently train & educate customers through various platforms enables us as a company to differentiate ourselves from the rest.



**CONCRETE**



**WATERPROOFING**



**ROOFING**



**FLOORING**



**SEALING  
AND BONDING**



**REFURBISHMENT**



**BUILDING FINISHING**



**INDUSTRY**

# INNOVATION AND SUSTAINABLE SOLUTIONS FOR CONSTRUCTION AND INDUSTRY

**SIKA ABYSSINIA**

Sebeta, Welete  
500 m from road in front of gas station  
PO Box 1596-110  
Addis Ababa - Ethiopia  
Phone: +251 11 618 2605  
sika@et.sika.com

**SIKA EGYPT CONS. CHEM. S.A.E.**

Elobour City  
1st Industrial Zone  
(A) Section #10  
Block 13035  
Egypt  
Phone: + 201 223 908 822  
marketing.info@eg.sika.com

**SIKA MOZAMBIQUE**

Boane - Matola Rio  
Parcela 3441  
Maputo Province  
Mozambique  
Phone: + 258 217 303 67  
info@mz.sika.com

**SIKA SOUTH AFRICA**

9 Hocking Place  
Westmead  
3608 Pinetown  
South Africa  
Phone: + 273 179 265 00  
headoffice@za.sika.com

**SIKA ANGOLA**

Travessa Mota & Companhia  
Zona Industrial Kikuxi  
À Estrada do Zango - Viana  
Apartado 135 - Viana - Angola  
Phone: +244 935 111 049  
angola@ao.sika.com

**SIKA EL DJAZAIR**

8 Route de Larbaa 16111  
Les Eucalyptus · Alger  
Algérie  
Phone: + 213 021 501 692  
assist.com@dz.sika.com  
dza.sika.com

**SIKA MOROCCO**

Z.I. Ouled Saleh  
BP 191 - 20180 Bouskoura-Casablanca  
Morocco  
Phone: + 212522334154  
info@ma.sika.com

**SIKA TANZANIA CONSTRUCTION  
CHEMICALS LTD**

Mbezi Industrial Area, Plot No. 135  
P.O Box 7079 Dar es Salaam  
Tanzania  
sales@tz.sika.com  
tza.sika.com

**SIKA CAMEROON SARL**

Zone Industrielle de Bonabéri  
BP.1049  
Douala  
Cameroun  
Phone: +237 233 390 384  
contact@cm.sika.com

**SIKA COTE D'IVOIRE SARL**

Zone Industrielle Yopougon  
21 BP 248, Abidjan 21  
Côte d'Ivoire  
Phone: +225 23 50 79 90  
adv@ci.sika.com

**SIKA MANUFACTURING NIGERIA LTD**

10 Western Industrial Avenue  
Lagos-Ibadan Expressway Isheri  
23401 Lagos · Nigeria  
Phone: + 234 809 044 2223  
customerservice@ng.sika.com  
nga.sika.com

**SIKA TUNISIA**

Zone Industrielle  
2086 Douar Hicher  
Tunisia  
Phone: +216 700 227 00  
sika.tunisienne@tn.sika.com

**SIKA DJIBOUTI**

Djibouti Zone Route 19, PK-12  
Warehouse No DWH30,  
East Africa Holdings FZ  
PO Box 4037 - Republic of Djibouti  
Phone: +253 77 23 83 03  
sika@dj.sika.com

**SIKA KENYA**

SEMCO Industrial Park - 2nd Floor  
Office Complex Mombasa Road  
P.O.Box 38645 - 00623  
Nairobi - Kenya  
Phone: + 254 20 2699683  
sales@ke.sika.com

**SIKA SENEGAL**

Route Sébi Ponty Bargny  
Diamniadio  
Senegal  
Phone: +221 78 582 52 36  
se.sika.com