

WORLD VIEWS MYANMAR

Step into a new born Yangon

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HOUSE OF WORSHIP

27.000 elements of steel, marble and glass

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AMBITIONS ISSUE #25



STEADFASTNESS



ASTRID SCHNEIDER

Marketing & Product

Communications Manager
Sika Services

The term "steadfast" might be used to describe a person who is fiercely loyal to another person, a group, a company, work, ideas or thoughts, to name only a few examples. Remaining steadfast can help us to withstand upheaval and other blows of fate during our lives. And it's comforting in a way as well. Just imagine changing your entire mindset every day – or moving house every two months. No, that sounds too exhausting. But it is of course not only us who need steadfastness. The construction world out there is exposed to very different complex external conditions which have to be overcome by professional systems and solutions. The Harbin Opera House in Northeast China has to endure severe weather conditions. Its steadfastness originates to a large part from the sealants, which have to be able to withstand seasonal temperature changes for a period in excess of 10 years. In winter, when the snow-melting device installed at the bottom of the aluminum cladding facade begins to work, the facade's temperature will immediately rise 90°C from -40°C to 50°C. Under such conditions, a standard 4,000 mm by 2,000 mm aluminum cladding panel will experience a 9.7 mm linear deformation, which must be absorbed by the sealants (p. 5).

Lifelong stability is also absolutely essential for the Grand Theatre in Rabat, Morocco, a veritable architectural pearl. With flooding a fundamental concern in the area surrounding the building, the site has been raised to five meters above the river level. Despite this, the required basement depth means that some parts of the building are still permanently below the water level, and large-scale tanking measures are being adopted to deal with this. The nearby river has created special challenges for the waterproofing concept for the building foundations, placing exceptionally high demands on the waterproofing systems, which Sika provides (p. 28). And while on the subject of strong waterproofing options, we are looking forward to celebrating with you the 30th birthday of the cementitious waterproofing coating SikaTop® Seal-107 (p. 42) and showing you some more solutions for wet rooms (p.34) – to keep them steadfastly protected against moisture, rising damp and any other water damage.

Yours sincerely,

ASTRID SCHNEIDER

CONTRIBUTORS



JESSICA AUDINO

Marketing & Communication
Sika Italy

With our social project of the gynecology and pediatrics clinic, we are proud to offer a second opportunity for people in need. Sustainable Flooring & Coating solutions have been applied for the "Associazione Caterina" medical clinic.



MATTHIAS ARNET Corporate Product Engineer Sika Services AG

Sika proves its role as the leading waterproofing company: 35 years success with SikaTop®Seal-107 - the reliable choice when it comes to waterproofing mortars, all over the world! This is Building Trust, continuous improvement paired with long-term experience.



WINT YUPAR MOE HR Office & PA Sika Myanmar

I am the youngest employee in Sika Myanmar and I do really enjoy my job and being with my colleagues. Sika feels like family for me.



LINGANG SI Product Management Manager, Sika China

Sika FFI team devotes to building trust with key accounts by supporting the market with reliable products, leading solutions and complicated service. Sika engineering silicones inside of thousands of buildings greatly enhanced the facade safety reliability and long-term water-proofing performance.



KARIMA NGHAIZI Marketing & Communications Coordinator, Sika Morocco

Recently I had to queue in a public institution in Casablanca and I heard a conversation by chance of the two men who were behind me, one of them said "Have you noticed that Sika lately is more visible? Wherever you go in Morocco you see their triangle..." Hearing these words was really heartwarming for me.

AMBITIONS #25 2016









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 Vacation time, the whole year through

- WATERPROOFING

 Building trust for 35 years Happy
 Birthday SikaTop® Seal-107
- SOCIAL RESPONSIBILITY

 Medical Center for the poorest

IMPRINT

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THE ECHO OF NATURE

The Harbin Opera House is situated in the wetlands of the Songhua River in Northeast China and is designed to reflect the force and spirit of the northern city's untamed wilderness and rigid climate, with an appearance of snowy mountains. In February 2016, the opera house was named one of the world's best buildings by ArchDaily*. Sika China has played its part in creating this amazing landmark, using its silicone sealants to bond the aluminum cladding and glass facades.

TEXT: APRIL LV, SI LINGANG PHOTO: HUFTON AND CROW

> Harbin is also known as "Ice City" or "Moscow of the East". It grew from a small village into a modern city during the late 1800s and early 1900s, in tandem with the construction of the Chinese Eastern Railway, which was financed by Russia. Thousands of foreigners from over 30 countries gathered there, bringing with them their cuisine, culture and architecture, each of which was integrated into the local lifestyle.

Western music was a special gift bestowed on the city. China's first symphony orchestra was founded in Harbin in 1908. Over a century later, music is deeply ingrained into the daily life of Harbin residents. It is said that one out of every nineteen families in Harbin has a piano. The Harbin Summer Music Concert, first held in 1961, has become one of the foremost concert events in China. In recognition of the city's music heritage, in 2010, Harbin was awarded the title "City of Music" by UNESCO.

2015 saw the inauguration of the Harbin Opera House, a palace of music and art for the city, marking the end of a five-year construction period. The opera house is located on the north bank of the Songhua River, where the riverbed forms various curves due to constant water level changes. The form of the building evokes a response to the location's natural elements, appearing as if it was also sculpted by the water. The edifice, with its fluid curvilinear structure, rises like a ribbon from the ground and then gradually descends. It is designed to reflect the surrounding natural environment.

The opera house was designed by the Beijing-based studio MAD. The fluid-shaped building wrapped with smooth white aluminum panels and white stone concrete resembles a mountain capped with shining ice and snow. Harbin goes through sharp temperature changes, measured as low as -40°C in the winter, but rising to 40°C in the summer. This poses a great challenge in terms of the









The smaller theatre, which can accommodate 400 people, offers a panoramic window behind the performance stage



> building materials, including the sealants to approach it, enter it and even climb for bonding the aluminum cladding and facades.

The sealants have to be able to withstand seasonal temperature changes for a period in excess of 10 years. In winter, when the snow melting device installed at the bottom of the aluminum cladding facade begins to work, the facade's temperature will immediately rise 90°C from -40°C to 50°C . Under such conditions, a standard 4,000 mm by 2,000 mm aluminum cladding panel will experience a 9.7 mm linear deformation, which must be absorbed by the sealants. Sikasil® WS-305 CN, known for its excellent movement capability, can joints.

The opera house merges with nature and its surroundings not only as regards its buildings in other cities. We want people pyramid is composed of two straight-an-

it," said Ma Yansong, founder of MAD. In addition to a large public leisure plaza, the opera house allows people, whether ticket holders or general visitors, to explore the facade's carved paths and ascend the building as if climbing a snowy mountain. Visitors will discover an open, exterior space that serves as an observation platform with views of Harbin once they finish their climbing journey.

The building interior also emphasizes the interaction of humans, buildings and nature. On entering the grand lobby, visitors will see large transparent glass walls which allow full natural light in daytime. ensure a long durable function for such
The crystalline glass curtain wall, composed of transparent pyramids, is designed as an intact 3D curved surface. Consequently, only the axisymmetric pyramids are identical, every other pyraappearance, it is also designed to conmid is different. The special design and nect to the city and its residents. "We thermal insulation function of the curtain don't want the opera house to serve just wall poses a huge challenge with regard as a photo backdrop, like so many iconic to glass production and installation. Each

gled glass triangles of different sizes.

To ensure a good thermal insulation effect, the curtain wall uses three-layer insulating glass to cover a large area. To achieve the special curved surface design, the glass units of each insulation glass are of different sizes. Sikasil® IG-25 is used as a secondary IGU sealant to make sure that the glass is able to stand up to the stress, movement and deformation after bonding. Moreover, it also prevents condensation forming within the insulating glass under low temperatures.

To make sure every glass panel was installed safely and properly, the project designers stipulated strict requirements for the facade structural adhesives. Sikasil® SG-500CN / Sikasil® SG-20 was used for the facade structural bonding to provide a safe curtain wall which is watertight, windtight and resistant to wind pressure.





> The opera house consists of two theatres. The grand theatre, which can seat formance, nature and the audience as a 1,600 people, is surrounded by wooden walls around its stage and seating area, providing world-class acoustics. The smaller theatre, which can accommodate 400 people, offers a panoramic window behind the performance stage. This wall of sound-proof glass provides a naturally scenic backdrop for performances and

outdoor environment, integrating per-

In February, 2016, the Harbin Opera House was finally awarded the accolade of one of the fourteen World's Best Buildings of the Year, selected from over 3,000 buildings around the world on ArchDaily. It is the only building from turns the stage into an extension of the China which received this honor.

* ArchDaily was founded in March 2008, and is the world's most visited architecture website. It is an online source of continuous information for a growing community of thousands of architects searching for the latest architectural news on projects, products, events, interviews, competitions, etc.

WHAT ABOUT MYANMAR?

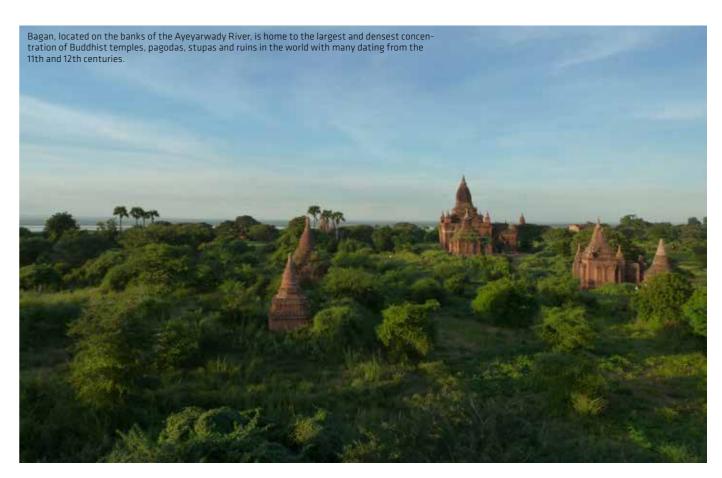
Myanmar (population: approx. 55 million) covers a total area of 676,578 km². It is a multi-religious nation with numerous indigenous languages. As Myanmar continues to open up to the outside world, more foreigners are venturing to this alluring country.

TEXT: ASTRID SCHNEIDER PHOTO: SIKA MYANMAR, ASTRID SCHNEIDER

The Aung San Suu Kyi-led National Myanmar in the historic general election decades of harsh military rule, it conveys transition and has opened up its econ-

a sense of hopeful but cautious energy. League for Democracy came to power in However, in 2013 Myanmar was classed as having a low level of human developof November 2015, and the country is emment, ranking 150 out of 187 countries. bracing change. As a nation that has seen Now the country is undergoing a rapid

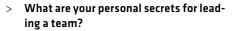
omy. We took a flight from neighboring Bangkok to Myanmar's biggest city, Yangon, to visit Torsten Novack, the General Manager of Sika Myanmar.







Team of Sika Myanmar.



I don't think there are any secrets. We are working with different people from different backgrounds and different cultures. Not everyone was lucky enough to go to university, but all my colleagues are curious, they like to explore new things, are willing to learn and are highly motivated. As Sika General Manager, it is my responsibility to identify my team's strengths, so we can lead and guide them and give them an opportunity to develop, enabling them to become the backbone of our small organization and work together as part of the Sika family.

What is the first thing that springs to mind when someone asks you what it is like to work in Myanmar?

Well, when Sika sent me here in September 2012, I had a laptop and 5,000 US dollars in cash on me. Myanmar was one of the last frontier markets and it reminded me a bit of India. The country natural resources. Personally, it was a The country has to invest heavily in inhad just opened up and begun to imple-Myanmar has huge potential for Sika be- did. cause of its infrastructure needs and the eign investors. The country is also rich in Sika?



The Shwedagon Pagoda in Yangon is the most sacred Buddhist pagoda in Myanmar. Many times in history it became a political arena for demonstrations against the military regime.

great opportunity for me to build some-

which creates good opportunities for for- Where exactly does the country need

frastructure, especially in the energy secment a democratic system. I realized that thing up from scratch for Sika. And so I tor, in bridges and airports, in hotels, as well as in the real estate market. This is where Sika can provide technology supfact that it's located on the Indian Ocean, How about the construction market? port, particularly in the concrete sector, in order to protect the environment and safeguard resources.



Any new trends in construction?

Right now, Myanmar is in the process of implementing building quality standards to ensure safe conditions by using technology instead of manpower.

Where is Sika Myanmar heading?

Sika Myanmar's main focus now is to be the market leader and to build up brand awareness. I can see Sika Myanmar rapidly growing over the next decades to match our Thailand or Vietnam operations in terms of size.



Swimming gardens: a village in Inle Lake, a freshwater lake in Shan State, Myanmar.

IT WAS A GREAT OPPORTUNITY FOR ME TO BUILD SOMETHING UP FROM SCRATCH FOR SIKA



about living in Myanmar?

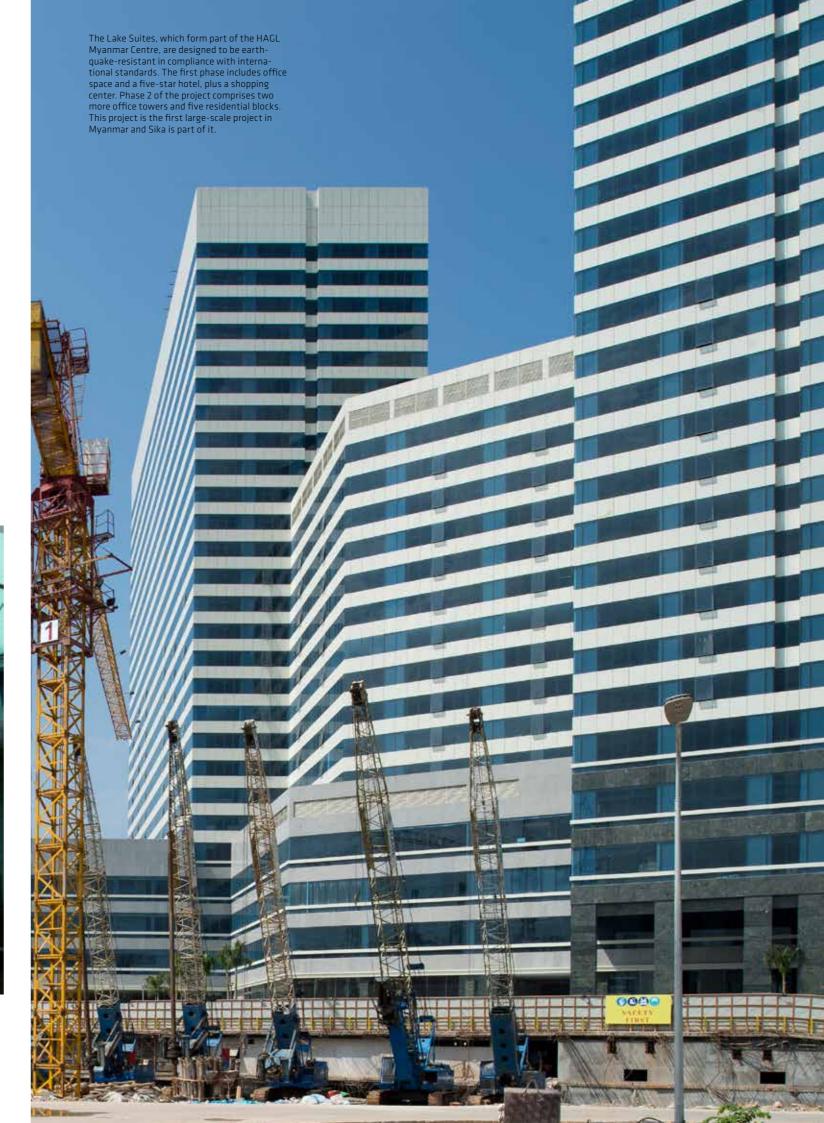
face new challenges and to work with my of education. team and watch my little Sika Myanmar family grow daily.

What do you wish for your country for the future?

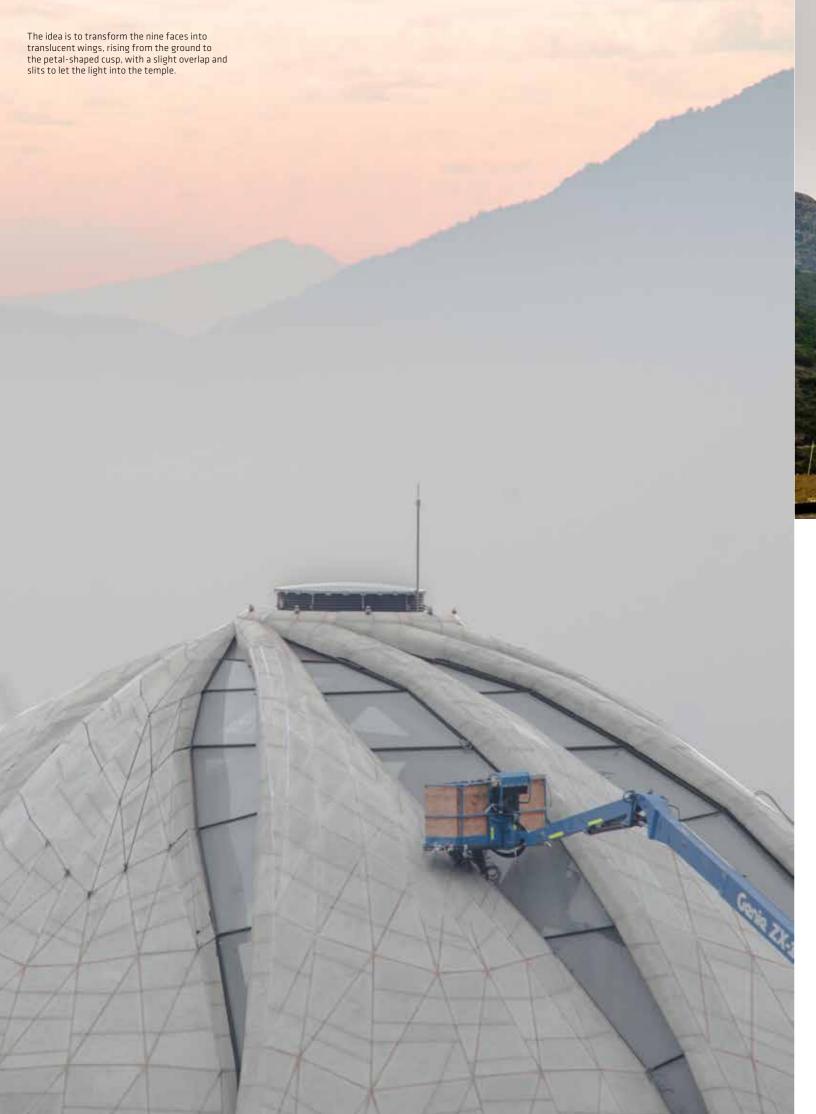
What do you personally enjoy most I wish Myanmar success both in establishing political stability to attract for-I personally enjoy waking up every day to eign investors and in increasing the level



Yangon is the country's largest city with a population of nearly 6 million, and is the most important commercial centre, although the military government officially relocated the capital to the newly built city of Naypyidaw in 2006. Though underdeveloped, it has the largest number of colonial buildings in the region.









> Bahá'í notions of progressive religious revelation result in their accepting the validity of the well-known religions of the world, whose founders and central figures are seen as manifestations of God. The religion has its roots in Persia, during the Ottoman Empire in the 1840s. South America's first Bahá'í House of Worship, or the Bahá'í Temple of South America, was designed by architect Siamak Hariri. "The aim was to achieve interplay of seeming contradictions: stillness and movement, simplicity and complexity, intimacy and monumentality, solidity and yet a building capable of dissolving in light," said Hariri. "The architectural challenge was to design a sister temple to the existing Temple of North America, while also enabling it to find its own unique presence at the foot of the Andes."

After five years of construction, the South American Bahá'í Temple is takthe end of 2016. Located in the city of new urban milestone. Santiago, the new House of Worship is intended to be a unique place in South tural masterpiece.

The 30-meter-high building, situated on among the temple's most attractive fea-



in no way dwarfed by the amazing view of the capital Santiago de Chile, as the thousands of potential visitors will find ing shape and is scheduled to open by out as they enjoy and get to know this

Nine doors, nine sides or faces (the num-America for people who want to pray, ber nine symbolizes a place open to the to filter through during the day and emit meditate or simply admire this architec- people, regardless of race, culture or religion), a central dome with the capacity to night. seat 600, and superlative landscaping are

the hills over an area of 83 hectares, is tures. The idea is to transform these nine faces into translucent wings, rising from the ground to the petal-shaped cusp, with a slight overlap and slits to let the light into the temple. According to the construction designers, this is intended give visitors the impression of floating on a mirror of water, allowing the light a warm glow from the interior lighting at

TECHNOLOGY HAS BEEN CRUCIAL TO MAKING THIS CONSTRUCTION POSSIBLE, AND SIKA SOLUTIONS HAVE PLAYED A MAJOR ROLE

> "Technology has been crucial to making this construction possible, and Sika solutions have played a major role," says Eduardo Rioseco, Director of the Bahá'í House of Worship in South America. "This is a work of high complexity, with countless challenges. One of them was the manufacture of the molten glass, forming the outer coating of the tem-

Canadian craftsman, who after two years are identical, each of them is formed by of studies and tests was able to achieve 3,000 unique elements of steel, marble the desired result. The craftsman made and glass, which has implications not glass plates, which then had to be cut, only in terms of design and manufacturand in the case of curved pieces, the glass ing, but also for the logistics of shipment had to be cast in a mold, which proved to Chile, on-site warehouse organization another major challenge," Rioseco said.

ple. The work was commissioned to a While the nine wings forming the temple and final assembly.



While the nine wings forming the temple are identical, each of them is formed by 3,000 unique elements of steel, marble and glass.





The coordination of manufacturing across different countries was another interesting challenge. The glass was manufactured in Canada, the marble was bought in from Portugal, the steel was made in Turkey, and the entire assembly was completed in Germany for later erection in Chile.

The unusual and spectacular curtain wall assembly was achieved thanks to the technology of Sika's structural silicones and its specialized Sikasil SG and Sikasil WS lines, which offer high structural and weather resistance. Without question, joined surface, anti-tarnish protection the major challenges were to specify a and resistance to rain runoff, all of which system with suitable products that pro- combine to deliver a delicate aesthetic assembling a giant jigsaw puzzle with vide structural bonding as well as to thor- finishing that is superior to conventional oughly check the design of every detail weather silicon.

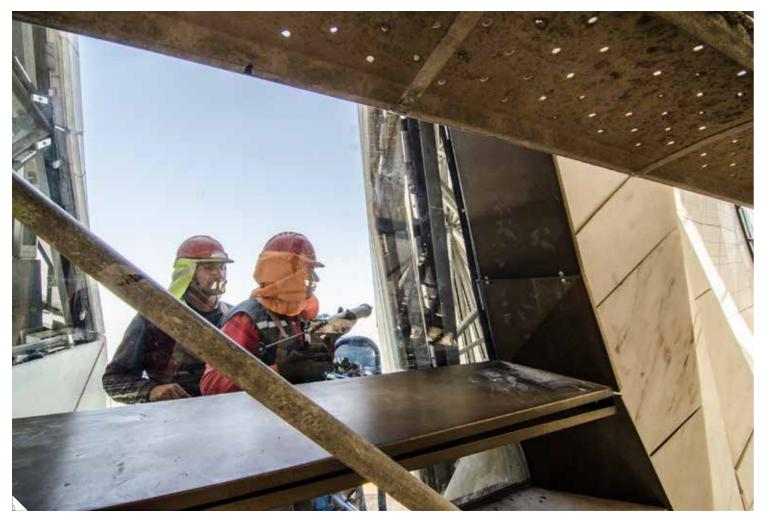


The glass was manufactured in Canada, the marble was bought in from Portugal, the steel was made in Turkey, and the entire assembly was completed in Germany for later erection in Chile.

and each wing of the structure. This in turn called for a special technology that guarantees permanent cleanliness of the

Furthermore, the use of SikaMembran Universal provided a high-resistance membrane semipermeable to steam, thus producing an airtight and breathable space. "Building this temple is like

SOCIAL RESPONSIBILITY





- The Temple is located on 83 hectares and is 30 meter height.
- The construction with a flower or bud shape is inspired in number nine, which means it is open to all people with no distinctions of any nature.
- Bahá'í community has 6,000 followers in Chile. A bit more than 10% of them live in
- Bahá'í believe in Bahá'u'lláh ("glory of God") who is considered the divine messenger, like Jesus, Moses, Buda and
- They believe in equality between men and women, soul life, that transcend death and that pray contribute to an intimate relationship between person and God.
- 1 The spectacular curtain wall assembly was achieved thanks to the technology of Sika's structural silicones and specialized Sikasil. lines, which offers high structural and weather
- 2 The Bahá'í House of Worship in New Delhi, India: similar architectural idea. While traveling, the author found it relaxing to hide inside from the 45°C of the city and have a siesta.

> more than 27 thousand pieces of molten glass, steel, marble, bronze and wood. In such a scenario, having reliable insulation and sealing is essential. Sika products give us the confidence of knowing that each corner of the temple is impermeable," states the director, adding "the of insulation".

interior finishing and the installation of various systems for the temple and attached buildings, the erection of fountains in the temple square, landscaping, civil works and the construction of a new access road. Everything is being done with the same care that characterized use of such technologies has brought us the last 5 years, where gardens are not invaluable help along the entire process conceived as a decorative element, but a sacred area for prayer. The paths were designed in a spiral shape to permit quiet Currently, Sika Chile is working on the walks in harmony with nature.

A LITER OF LIGHT

TEXT: RODRIGO SILVA, ASTRID SCHNEIDER PHOTO: LITER OF LIGHT BRAZIL



Liter of Light is a global, grassroots movement committed to providing affordable, sustainable solar light to people with limited or no access to electricity. Through a network of partnerships around the world, volunteers teach marginalized communities how to use recycled plastic bottles and locally sourced materials to illuminate their homes, businesses and streets.

LITER OF LIGHT HAS ALREADY INSTALLED MORE THAN 350,000 BOTTLE LIGHTS

> Liter of Light has installed more than 350,000 bottle lights in over 15 countries and taught green skills to empower grassroots entrepreneurs at every stop. The organization's open source technology has been recognized by the UN and adopted for use in several UNHCR camps. The NGO is the proud recipient of the 2015 Zayed Future Energy Prize and a winner of the 2014-2015 World Habitat Award.

The Liter of Light organization in Brazil also aims to provide an economically and ecologically sustainable source of light for homes and schools without resources or access to electricity. The light source consists of a plastic bottle filled with a solution of water and bleach, placed in small holes in the roofs of houses. The aim is to refract sunlight in order to illuminate the area beneath. The bottled light was created by Brazilian mechanic Alfredo Moser, who hung an improvised lamp in the roof of his home in 2002 during a blackout. And it was not long before his neighbors picked up on the idea.

Philippine national Illac Diaz, creator of the MyShelter Foundation, which develops low-cost sustainable projects, saw the solution as an opportunity to help poor families in their country and was inspired by it to initiate the Liter of Light project. The idea has since been developed and applied in more than 20 countries on 4 continents, including Kenya, Colombia, Honduras and, most recently, Brazil.

South America's leading proponent Colombia aims to light up 100,000 homes this year. The MyShelter Foundation pro-



Liter of Light in Colombia wants to light up 100,000 homes in 2016.

installing its own team at headquarters a saving of 70% on our final cost," says Lilocated in the state capital Florianopolis.

Sika Brazil has been supporting the NGO

America in 2013 in Camboriú Municipality, ple. The donation of sealants represents ter of Light president Vitor Belota Gomes.

"The challenge facing the NGO was to by gifting Sikaflex® and SikaBond® as find a company offering the necessary vided for the installation of 1 million bot- well as providing financial aid. "It is es- high standard of technology and guarantles worldwide in 2015. The Liter of Light sential to bring this partnership to Brazil tee high-performance durable products project commenced activities in South as we can serve a greater number of peothat can withstand the weather conditions," points out Sika Brazil's Marketing Coordinator Rodrigo Silva. Sika Brazil also offers the complete gamut of technical support required for the application.

Besides Brazil, Sika supports projects in Bangladesh, Colombia, India, Mexico, Nicaragua and the Philippines, among others. The project was also given public

exposure at the World Resources Forum in Davos.

own eyes. These movies will inspire you: https://youtu.be/o-Fpsw_yYPg

http://uk.reuters.com/video/2011/07/11/ bringing-light-to-the-poor-one-liter-

at?videoId=216968892

https://www.hks.harvard. You have to see a liter of light with your <u>edu/news-events/news/</u> alumni/a-liter-of-light-goes-a-long-way













THE NEARBY RIVER HAS CREATED SPECIAL CHALLENGES FOR THE BUILDING FOUNDATIONS



The monumental theater for the whole country, a cultural highlight with firstrate amenities - this has been the vision of the country's leaders. Zaha Hadid was commissioned to draw up an avant-garde design.

The 27,000 m² structure is sited on a floodplain site in the center of the city, which is currently undergoing major residential, commercial and leisure regeneration. Hadid's design is based around the idea of a smoothly-formed monolithic concrete wrap, wound around a set of auditorium spaces within. The areas between the auditoria and the external envelope form zones for circulation. These extend out onto the site to create a vast
The Bou Regreg valley is subject to seiscapacity.

Flooding is a fundamental concern, and the site has been raised up to 5m above the river level accordingly. Despite this, the required basement depth means that levels below the flood plain are unavoidable: large-scale tanking measures are being adopted to deal with this. This nearby river has created special challenges for the waterproofing concept for the building foundations. Although the theater site has been raised to a level five meters above the river, some parts of the building are still permanently below the water level. Hence there are exceptionally high requirements for reliable waterproofing systems.

new public landscape, including an out- mic activity, and the saturated finedoor amphitheater with a 7,000-seat grained soils mean that liquefaction occurs during seismic episodes. The theater

is thus supported on large-diameter piles which can withstand seismically induced lateral loads by acting as cantilevers 12 - 15 m long, supported by the stiffer

The building shell features a combination of steel framing and concrete. The overall structure stands on 325 piles connected to a slab-on-grade, which, due to structural requirements, is one meter thick. The construction is complicated additionally by the geometry of the walls, which are curved in both horizontal and vertical planes. Further demands are imposed by the size and weight of the steel roof

To the west of the theater is a bridge which is heavily used by private vehicles







The nearby river creates special challenges for the waterproofing concept for the building foundations. Although the theater site has been raised to a level five meters above the river, some parts of the building are still permanently below the water level. Hence there are exceptionally high requirements for reliable waterproofing systems.

> and streetcars. This traffic poses acous- bearings. These steelwork trusses span SikaProof® A fully bonded composite tic problems, but excellent solutions up to 60 m to create a column-free inter- sheet membrane system was chosen to have been found for the acoustic inside the theatre. In the main structure, acousalso feature metal decking covered in time this product has been used in North tic quality is thus paramount; structural separation is adopted throughout, with mass. Together these create an impres- the concrete, while other products such the steel roof sandwiched between two sive and complex form reflective of, and as SikaSwell® were also used in this spethin concrete shells. This sits on concrete indeed reflected in, the adjacent waters cial project. The wholehearted support perimeter walls, separated by isolation of the Bou Regreg.

nal void for the theatre itself. The floors waterproof the foundations - the first concrete to create the requisite acoustic Africa. Sika® ViscoCrete® was added to provided by Sika's experts in Morocco

was very much appreciated, while the onthe-spot training for applicators, provided by Sika representatives sent specially had been made.

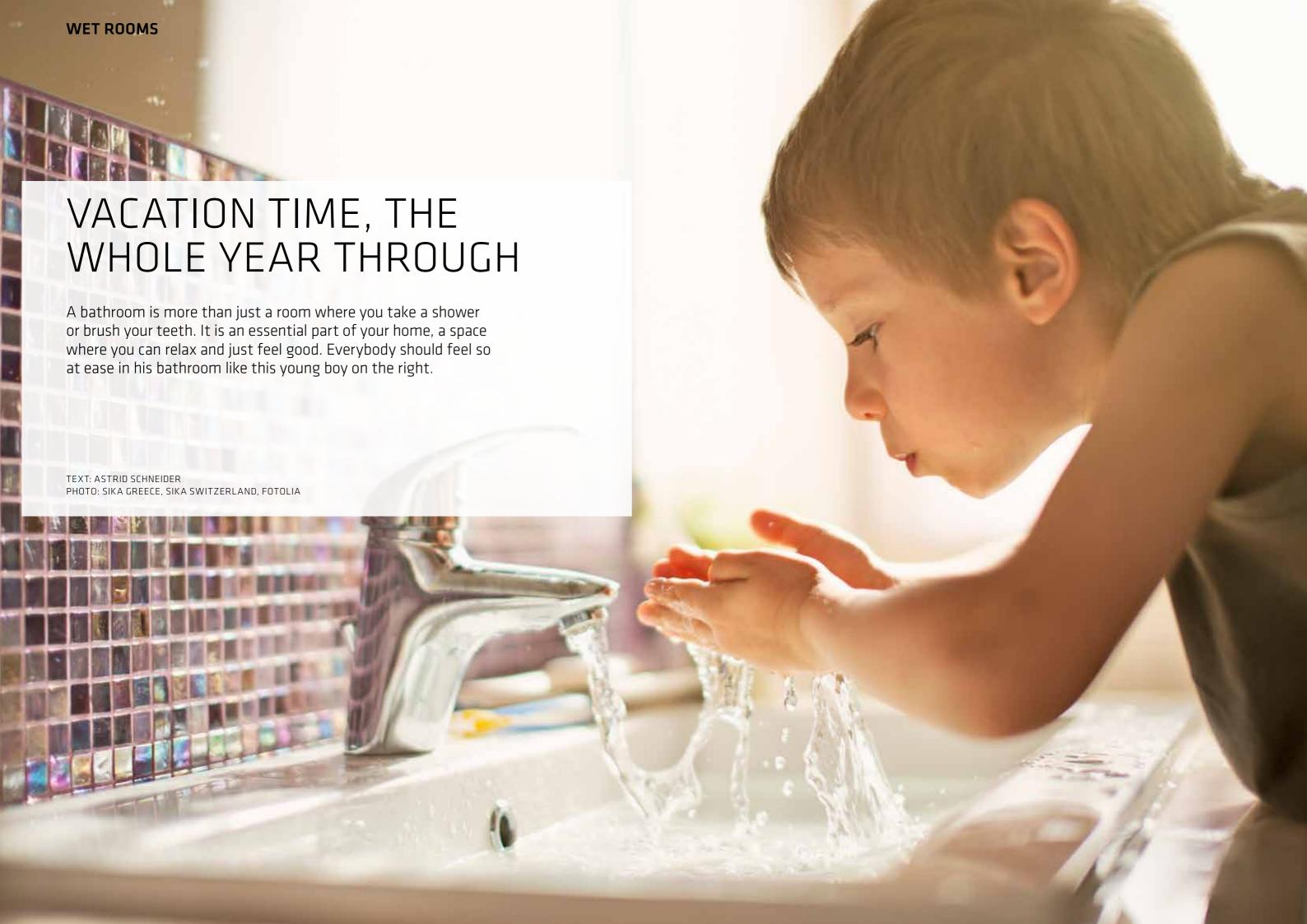
It boasts the country's seventh largest city center and has a population of over 1.2 million. The city is located on the Atlantic Ocean at the mouth of the river

Bou Regreg. Rabat is an important center of the textile, food processing and construction industries. In addition, tourism from Switzerland to Morocco, served as and the presence of all foreign embassies further proof to all that the right decision in Morocco serve to make Rabat one of the country's most important cities. The Grand Theater will be inaugurated in 2018 Rabat itself is the capital of Morocco. and further enhance the city's cultural importance.

https://youtu.be/1RUOTtX_xf8

http://www.archdaily.com/90812/ rabat-grand-theatre-zaha-hadid

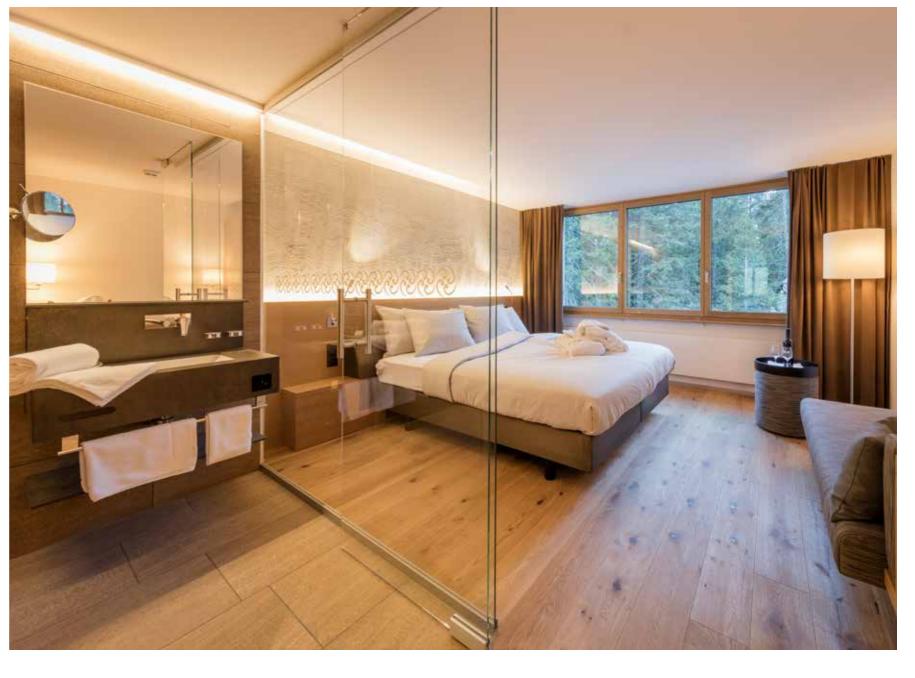
http://www.dezeen.com/2010/11/22/ rabat-grand-theatre-by-zaha-hadid-architects/











> Something which is becoming more and more popular these days is the socalled wet room - a bathroom in which the shower is not separated off from the rest of the room with a built-in shower cubicle, but where the room itself acts as and protect the structure or the buildthe enclosure.

Such wet rooms offer a huge range of benefits. Not only do they look ultrastylish and allow you to simply walk more, they add value to your home!

room or any other wet area, such as toilets, kitchens, laundries or especialing from any water ingress. It is imperaproducts. tive to consider the whole structure as a system, from substrate preparation to leveling, waterproofing, tiling and sealing, as the different components need straight into your shower area; they are to be fully compatible, easy to apply and generally also easier to clean and, what's completely reliable in order to achieve the best results.

Nevertheless, when considering a wet A very popular approach is to use system solutions with tiles as a finishing layer, as they offer a huge choice of colors and dely swimming pools, the key factor is to signs and are perfectly compatible with properly waterproof these elements waterproofing membranes such as waterproofing mortars or dispersion-based

> Have you ever thought about redesigning your bathroom? Before you decide on a specific wet room, cast your mind back to all the hotels you have visited in your life, because hotels often reflect the very latest style. What did you like best? Below are some examples to inspire you and

highlight the areas requiring the most bars, and a spa center, as well as recrecare ...

Sika is a full system supplier with its roots in waterproofing, and therefor a specialist for wet rooms, wet areas and swimming pools. Here are some examples...

First let's take a look at Insula Alba, Greece, which is the latest 5-star hotel to be built in Heraklion, Crete. It is a luxu-

ation and lounge areas. The design of the hotel dictated extensive and technically demanding tiling areas. The designer's choice of tiling was synthetic granite for the indoor and outdoor areas and specially-crafted tiles for the swimming pools.

The tile adhesives for the high-traffic (e.g. reception and lounge) areas are required to withstand a heavy load. For the submerged surfaces, the tile adhesives rious seaside spa hotel with 140 rooms need to have superior durability in terms races. SikaCeram® was chosen for the and suites, seven indoor and outdoor of both mechanical and chemical resisswimming pools, restaurants, cocktail tance. In this type of project, the aes-

thetic factor is also a high priority. The tile grouts need to have high mechanical and chemical resistance, with antibacterial properties and long-lasting colorations, and be durable to exposure to UV radiation and chemical cleaning agents. The finishing texture needs to meet the highest aesthetic standards.

Sika Greece used SikaCeram®-203 Superbond as the appropriate tile adhesive for the bathrooms, indoor flooring and terswimming pools and surrounding areas.







> The tiling grouts were of prime importance. The wide range of available colorations enabled the designer to employ four different hues, matching the tiles in use.

Leaving Greece, we now visit Tivat, a coastal town on the Adriatic Sea in Montenegro. Situated within the Bay of Kotor UNESCO World Heritage site, apartments, bars and restaurants. The a short timeframe.

completed in 2015 with a total area of 3,000 m².

summer. However, during the winter period it can see a lot of rainfall. With these conditions, an in-depth evaluation of the waterproofing requirements is needed. The contractor and designer requested it is famous for its burgeoning tourism a complete waterproofing system suitindustry. Part of this development is able for swimming pools, bathrooms and the new yacht marina and adjacent wa- terraces. An additional challenge was the terfront development, with residences, pressure of completing the project within

construction of the villa residences was Sika Serbia offered a complete, proven waterproofing system as the best way to meet the tight schedule for this project. Swimming pools, terraces and bathrooms Tivat enjoys warm and dry weather in the were waterproofed with Sikalastic® waterproofing mortars, in combination with Sika joint and tiling solutions.

> Returning to the topic of bathrooms, we now go to Aranđelovac, a town in Serbia which is located 75 km south of the capital Belgrade and is famous for its mineral springs. Spa and wellness destination Hotel Izvor offers a wide choice of swimming pools and wellness facilities. When

the existing hotel was to be refurbished, the contractor and designer requested a complete waterproofing system for the bathrooms, terraces and swimming pools. Sika Serbia provided a proven system solution which included waterproofing of joints, pipes, drains and other reable to close your eyes, immerse yourself lated areas.

So whether in wet rooms, wet areas in general, or swimming pools, the essential thing is to consider the right products and materials to keep the water in its intended place from the very beginning.

Have we inspired you to acquire a wet room of your own? Then design your own style - have fun selecting tiles and materials, explore different patterns and colors, and always keep in mind the need for proper waterproofing. Soon you will be in the water and feel ... just as if you were on vacation. Every single day of the year.

- 1 Waterproofing systems were applied for swimming pools, bathrooms and terraces. An additional challenge was the pressure of completing the project within a short timeframe.
- 2 Luxury villas in Marina village of Porto Montenegro Tivat is a coastal town in the Adriatic sea in Porto Montenegro. Situated within the UNESCO World Heritage site, it is part of this development of the new yacht marina and waterfront with residences. apartments, bars and restaurants.

BUILDING TRUST FOR 35 YEARS – HAPPY BIRTHDAY SikaTop® Seal-107

Do you have bathroom mold on your ceiling? If you've never experienced bathroom mold, perhaps you aren't looking deep enough into the corners of your bathroom. It's one of the most common problems in any house; it's also one of the easiest to prevent.

TEXT: MATTHIAS ARNET. ASTRID SCHNEIDER PHOTO: SIKA SERVICES AG, FOTOLIA





Special version of SikaTop® Seal-107 for waterproofing of swimming pools in Italy.

> Lack of air, leaky toilets, sinks, and these products, what is it that makes in the Swiss Alps had to be prepared for plumbing pipes or damp materials such a cementitious waterproofing prodas rugs, wood, wallpaper, grout, drywall, and fabric are often the reasons for the hassle of mold. And what about drinking broad area of application or its ease of water reservoirs? The hygienically pure water has to stay in the interior of the tank without leakage, while outer dirt
In this connection, we have a birthday must be kept 100% outside. These are only two examples why waterproofing is launched that fulfils precisely these attriessential.

One solution that Sika offers is cementitious waterproofing, which has many advantages. Waterproofing mortars make a structure impermeable to liquid water, but allow water vapor to permeate. Plus, they are relatively easy to apply and very cost-effective.

The wide range of potential applications for waterproofing mortars include waterproofing of water tanks, drinking water reservoirs, water channels and basethe tiling in swimming pools and wet structures such as bridges or facades. rooms or on balconies. Cementitious waterproofing is suitable for new and refur- Sika's vast experience with waterproofbishment projects.

uct exceptional? Is it its reliable usage

to celebrate. Back in 1981, a product was butes: The cementitious waterproofing mortar SikaTop® Seal-107 was brought to market in Switzerland and has since become a byword for reliability and user-friendliness.

This two-component, polymer-modified cementitious product is perfectly suited for a wide range of waterproofing applications: keeping water in or out of a structure - whether below the tiling in wet rooms, for tanks and reservoirs, for positive or negative-side waterproofing in basements, or as a protection coat-

ing and waterproofing mortars in particular goes back to the beginning of the While there are many advantages to 20th century, when the railway tunnels

the electrification of trains. Sika was able to offer the appropriate admixtures paired with outstanding properties, its for preparing mortars to waterproof the

> This knowledge was used to develop and improve the waterproofing mortar ranges over the years, and in 1981 the first version of SikaTop® Seal-107 was launched in Switzerland. Nowadays, this product is applied all over the world and sold in more than 50 countries. The experience acquired in the course of these years is immense: customer advice and continuous improvement are the basis of this product's dependability today.

SikaTop® Seal-107 is delivered in a twocomponent kit including the cementitious powder and the polymer dispersion. The polymer improves the waterproofing properties, increases adhesion to the substrate and enhances the crack-bridgments, as well as waterproofing below ing to increase the durability of concrete ing characteristics. The product permits the sealing of hairline cracks and reduces permeability to liquid water.

> A key feature of the product is its adjustable consistency and excellent workability: depending on the customer's needs

NOWADAYS, THIS PRODUCT IS APPLIED ALL OVER THE WORLD AND SOLD IN MORE THAN 50 COUNTRIES

plied either by trowel or by brush as a reinforcement bars. slurry. Additionally, the product comes delivered ready to use, meaning no additional water needs to be added.

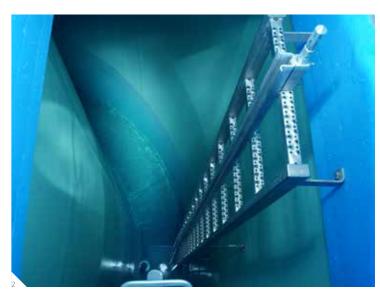
water, but also the ingress of substances such as chlorides or sulfates that can at-

and preferences, the product can be aptack the concrete substrate or even the

All that remains for us to do is wish SikaTop® Seal-107 Happy Birthday. The millions of people worldwide who have The dense structure of the mortar re- built and are benefiting from tight wato add their congratulations too.







- 1 Water channel 2 Water reservoir
- 3 Wet room
- 4 Waterproofing of drinking water tank in Spain







MEDICAL CENTER FOR THE POOREST

The BBC recently quoted Italy's National Institute for Statistics (ISTAT) as stating that 4.6 million people in Italy were now unable to afford goods and services "essential to avoid grave forms of social exclusion". Poverty levels are now at their highest point since records were first compiled in 2005. In the less-developed south, 10% of people live in absolute poverty.

TEXT: JESSICA AUDINO, ASTRID SCHNEIDER PHOTO: SIKA ITALY, ALESSANDRO NEGRINI

> Italian media said some of the change could be attributed to migrant families, almost a third of whom live in absolute poverty - more than 153,000 migrants arrived in Italy last year. The number of people who are living in poverty in Italy has doubled since 2012. Over a million Italians are unable to afford to eat meat or pay for basic necessities such as heating for their houses. It is estimated that poverty in Italy is more acute than it has ever been within the last 16 years.

> Relative poverty is defined as a family of two members living on a monthly salary of 991 euros or less. This applies to around 12% of families in Italy. About 8% of the Italian population is living in total poverty, i.e. below the minimum acceptable standard of living.

the severity and scale of Italy's recession, the longest since the Second World War. Italy may be the comeback kid of the global sovereign debt markets, but its economy does not look as though it will ever come back - and it was not even strong to start," said Nicholas Spiro, head of Spiro Sovereign Strategy about

The recession is taking a massive toll, currently plunging approximately 40 percent of Italian youth into unemployment. One third of people aged 15 - 29 are either without education or without a job. And only 58% of those who have graduated from college are able to find jobs out of school. This is far below the ditional approx. 300 m² of space where average of 77.2% for Europe as a whole.

"It is a reminder, if one were needed, of Italy especially has increased by a mas- also houses modern medical zones that

sive 90% over the past five years, a clear indicator of the economic gap between Northern and Southern Italy. 16.6% of families living in poverty in Italy are not receiving sufficient nutrients.

The NGO Catherine Onlus Association helps precisely where help is needed. The organization was formed in 2006 and since then has cared for the very poorest section of society in the southern Italian province of Salerno. On 12 April 2011, its "soup kitchen" was inaugurated. This 400 m² property was entirely financed by volunteers and donors.

The cafeteria building provides an ad-"Association Caterina" wishes to tackle some of the most serious difficulties of According to INSTAT, poverty in Southern the poor population. Thus the building are available to the most vulnerable, such as pregnant women, children, immigrants and elderly people in economic difficulties, giving them access to a basic right: health care.

The medical volunteers who have joined the project will provide a permanent health service that will give many families access to health care. Trained physicians will provide pediatric, gynecological and general medical care. The gynecology department looks after expectant mothers and babies, while general practitioners will provide assistance to other natients.

Sika Italy will provide hot meals throughout 2016 and medical equipment to support its day-to-day activities. Moreover, Sika is installing Sikafloor® systems as a hygienic, durable and environmentally compatible solution for the medical facilities' floors.

http://www.caterinaonlus.it/web/index. php/it/





