

INNOVATIVE SOLUTIONS FOR METRO CONSTRUCTIONS



BUILDING TRUST

SIKA SOUTH EAST ASIA



Sika (Cambodia) Ltd.

Parkway office center, 2nd floor, 2FB2, Mao Tse Tong Blvd. Sangkat Toul Svay Prey I, Khan Chamkamorn, Phnom Penh 12308 - Cambodia phone +855 2321 5198 fax +855 2322 2367 www.sika.com.kh

Sika Indonesia P.T.

JL. Raya Cibinong - Bekasi km 20, Limusnunggal, Cileungsi, Bogor West Java 16820 - Indonesia phone +62 21 823 0025 fax +62 21 823 0026 website: idn.sika.com

Sika Kimia Sdn. Bhd.

Lot 689 Nilai Industrial Estate, Nilai Negeri Sembilan 71800 - Malaysia phone +60 6799 1762 fax +60 6799 1980 website: mys.sika.com

Sika Myanmar Limited

Plot No. 31, Myaytaing Block No. 143/1, Kyansitthar Yeikmon Industrial Zone Dagon Myothit (South) Township Yangon Region Burma (Myanmar) phone +959769809795

Sika Philippines Inc.

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Unit A/B 888 Marcos Alvarez Ave, Talon 5 Las Pinas City 1747 - Philippines phone +632 806 2875 fax +632 806 2883 website: phl.sika.com

Sika Singapore Pte. Ltd.

66A Sungei Kadut Street 1 #04-00 Singapore 729368 - Singapore phone +65 6777 2811 fax +65 6779 6200 website: sgp.sika.com

Sika (Thailand) Ltd.

700/37 Moo 5 Amata Nakhorn Industrial Estate, Bangna -Trad Rd. Km.57, Tambol Klong Tamhru, Amphur Muang, Chonburi 20000 - Thailand phone +66 3821 4270 fax +66 3821 4288 website: tha.sika.com

Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone, Nhon Trach District Dong Nai Province - Vietnam phone +84 613 560 700 fax +84 613 560 699 website: vnm.sika.com

Laos

Please contact Sika Thailand 700/37 Moo 5 Amata Nakhorn Industrial Estate, Bangna -Trad Rd. Km.57, Tambol Klong Tamhru, Amphur Muang, Chonburi 20000 - Thailand phone +66 3821 4270 fax +66 3821 4288 website: tha.sika.com

SIKA ASIA PACIFIC MANAGEMENT PTE LTD

39 Robinson Road / #17-04 Robinson Point / Singapore 068911 phone: +65 6709 4190 fax: +65 6443 3348

METRO CONSTRUCTION SIKA SYSTEMS SOLUTIONS



Innovative Solutions for Metro Construction brochure provides an overview of Sika's solutions, which can be applied or used in the various parts of Metro Construction projects.

Huge construction projects are combining several individual projects - this brochure summarizes Sika's product suggestions for **Concrete Production** and **On Site Construction**.

At the end of the brochure, the overall **Sika Concrete Repairs and Protections Solutions** are presented.

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CONCRETE PRODUCTION READY MIX CONCRETE



For all parts of the METRO system a large amount of concrete will be produced and used. Besides that, the concrete to be used will be either in situ concrete or precast concrete requiring different strength and consistency.

Hereafter the summary of Sika admixtures, additives and essentials products suitable for the production of durable concrete.

SIKA PRODUCTS	DESCRIPTION	NORM	TYPICAL USE
Plastocrete® Plastiment®	Water reducing admixture with set retarding effect	ASTM C 494 B & D	Bored pile
Sikament®	High range superplasticiser	ASTM C 494 G & F	High workability concrete with long slump life for pumpable concrete
Sika® ViscoCrete®	High range polycarbo-xilates superplasticiser	ASTM C 494 G & F	Admixture for Self Compacting Concrete
Sika® ViscoFlow®	Workability enhanching admixture	EN 934-2, table 10	Adjustable workability time base on project without negative effect on early strength development
SikaPlast®	Polycarboxilates modified mid range water reducing	ASTM C 494 A & D	High workability concrete with long slump life

READY MIX CONCRETE SUPPLIERS – CONCRETE PRODUCTION

READY MIX CONCRETE SUPPLIERS - CONCRETE ESSENTIALS

SIKA PRODUCTS	DESCRIPTION	TYPICAL USE
Separol® Sika® Form Oil	Range of formwork release agent for wooden or steel formwork	Form work protection and uniform concrete colour and texture
Rugasol® series Concrete surface retarder compound		When the production of exposed aggregate is required
Antisol [®] series	Range of curing compound material Tested according ASTM C 309-81	Preventing premature water lost. Reduces incidence of plastic shrinkage

CONCRETE PRODUCTION PRECAST CONCRETE



For all parts of the METRO system a large amount of concrete will be produced and used. Besides that, the concrete to be used will be either in situ concrete or precast concrete requiring different strength and consistency.

Hereafter the summary of Sika admixtures, additives and essentials products suitable for the production of durable concrete.

PRECAST CONCRETE SUPPLIERS - CONCRETE PRODUCTION

SIKA PRODUCTS	DESCRIPTION	NORM	TYPICAL USE
Sikament [®] F Series	High range superplasticiser	ASTM C 494 F	High water reduction for early strength development
Sika® ViscoCrete®	Polycarboxilates hyperplasticiasser water reducing	EN 934-2	High performance concrete admixture design for precast concrete
SikaFiber® CHO 80/60 NB	Galvanized glued steel fibers with hook end	ASTM A 820	Use as reinforcement for precast seg- ments production
SikaFiber® PP Micro	high quality, 100% virgin, monofilament polypropylene fibre,	Tests report available	Specialy designed for the prevention of concrete spalling in the event of fire. Reduce the occurrence of plastic shrinkage and plastic

PRECAST CONCRETE SUPPLIERS – CONCRETE ESSENTIALS

SIKA PRODUCTS	DESCRIPTION	TYPICAL USE
Separol® Sika® Form Oil	Range of formwork release agent for wooden or steel formwork	Form work protection and uniform concrete colour and texture
Sika® BondBreaker W	Water repellent, wax base bond breaker	Use for "match-cast" concrete production
Rugasol [®] series	Concrete surface retarder compound	When the production of exposed aggregate is required
Antisol [®] series	Range of curing compound material Tested according ASTM C 309-81	Preventing premature water lost. Reduces incidence of plastic shrinkage

CONCRETE PRODUCTION ON SITE CONCRETE



For all parts of the METRO system a large amount of concrete will be produced and used.

Besides that, the concrete to be used will be either in site concrete or precast concrete requiring different strength and consistency.

Hereafter the summary of Sika admixtures, additives and essentials products suitable for the production of durable concrete.

ON SITE CONCRETE PRODUCERS – CONCRETE PRODUCTION

Sika concrete admixtures designed for **ready mix concrete** or **precast concrete** can be used as well by main contractors at site batching plant. Below others products completing sika products range for concrete production at site

SIKA PRODUCTS	DESCRIPTION	NORM	TYPICAL USE
SikaRapid [®] range	Hardening concrete admixture	EN 934-2	Increase 6 to 8 hours early strength. Can be added on site into mixer truck
SikaFiber® CHO 65/35 NB	Galvanized glued steel fibers with hook end	ASTM A 820	For steel fibres reinforced sprayed concrete. Can be added prior spraying
SikaFiber® Force PP Macro	Polyolefin macro-synthetic fibres for fibre reinforced shotcrete and concrete	Tests report available	Highly corrosive environments resistance. Typical applications: sprayed concrete, pre- cast, slabs on ground among many other applications. Length range from 48 to 65 mm

ON SITE CONCRETE PRODUCERS – CONCRETE ESSENTIALS

SIKA PRODUCTS	DESCRIPTION	TYPICAL USE
Separol® Sika® Form Oil	Range of formwork release agent for wooden or steel formwork	Form work protection and uniform concrete colour and texture
Rugasol [®] series	Concrete surface retarder compound	When the production of exposed aggregate is required
Antisol [®] series	Range of curing compound material Tested according ASTM C 309-81	Preventing premature water lost. Reduces incidence of plastic shrinkage

ON SITE CONCRETE PRODUCERS – CONCRETE PROTECTION

SIKA PRODUCTS	DESCRIPTION	TYPICAL USE
Sikagard® range	Range of colourless water base or solvent containing Hydrophobic impregnation.	Concrete protectionsuch as reduction of capillary water absorption, protection against driving rain and splashing on vertical areas

ON SITE CONCRETE ELEVATED - DEPOT



Any METRO systems need a Depot where rolling stock will be stored, maintain or even repaired. Usually located above ground, they consist of large hangar where different and specifc facilities will take place. These structure are usually made of concrete and steel.

Here below Sika products for Depot construction.

	SikaGrout®, Sikadur®, Icosit® Polyurethane structural grout for columns fixing, rails mechanical performances and vibration & noise reduction Non-shrink definition as per ASTM C 1107 applies Tested according to EN 1504-6:2006, 2-Pack Polyurethane Grout for Rail Fixing
FLOORING Range from Cementiti	Sikafloor® ious to self levelling Epoxy flooring system providing
abrasion, chemical resis Chapdur® Sikafloor®	Stance of the ground floor Dry shake hardener Large range of epoxy resin for the application of primer,
Sikafloor® EpoCem® Sikafloor® PurCem®	roller coat, screed and self levelling. Temporary moisture barrier based on epoxy and cement binder prior primer application Water dispersed medium to high strength coloured
Sikafloor [®] ColourSeal	polyurethane modified, cement and aggregate screed Coloured solvent based acrylic resin polymer solution used to cure, harden and seal fresh or hardened concrete.
SEALING & BONDING Sikaflex [®] range	Sikaflex®, SikaHyflex®, SikaSil® Polyurethane high performance joint sealant for
SikaHyflex [®] range	concrete joint Range of 1-component, moisture-curing, elastic joint
Sika® Firerate	sealant. Low or high modulus version available Fire Resistant (Intumescent) Joint Sealant
Sikasil®-670 Fire	Fire rated, 1-component, moisture-curing, low-modulus elastic joint sealant.
Sikacryl®-620 Fire	Fire rated connection joints and penetration seals on porous and non-porous substrates.
Sikaflex [®] -400 Fire	Fire rated, 1-component, moisture-curing, elastic joint

sealant.

ON SITE CONCRETE ELEVATED - DEPOT



STRUCTURAL ANCHOP Sika AnchorFix®-1 Sika AnchorFix®-2 Sika AnchorFix®-2 Tropical Sika AnchorFix®-3+	RINC & FIXING Sill Solvent- and styrene free based two part anchoring adhesive Solvent and styrene free, epoxy acry part anchoring adhesive. Solvent- and styrene free, epoxy acryla part anchoring adhesive for tropical/ho conditions High-perfromance, 2-part epoxy ancho	late based, two te based, two ot climate
FIRE PROTECTION SYS Sika® Unitherm®	TEMS Si Intumescent coating system for steel selectrical cable Fire protection system approval: ASFP Deutscher Institu fur Bautechnik, BAM FM approval class 4970	CM, BSI FM 832,
PROTECTIVE COATING Sikagard [®] range Sika [®] Poxitar [®] F	Sikagard®, S Epoxy base protective coating for stee	ika® Poxitar® F or concrete
ROOF WATERPROOFIN Sika® Sarnafil®	IG Sarnafil®, S State of the Art of PVC waterproofing exposed, concealed roof. Application o steel roof	

Self adhesive or torch applied bitumen based water-

proofing sheet

Sika® BituSeal®



ON SITE CONCRETE ELEVATED - LINE



Elevated systems are built as Viaduct construction, where large parts of the structure require typically Reinforced Concrete structures.

These structures are constructed as pure in situ concrete casting or combinations of in situ concrete and precast concrete elements.

Hereafter, Sika solutions for on site Viaduct construction.

	SikaCrout®, Sikadur® r Polyurethane structural grout for columns fixing, rails mechanical performances and vibration & noise reduction
SikaGrout® xxx Sikadur® 42 xx	Non-shrink definition as per ASTM C 1107 applies Tested according to EN 1504-6:2006,
PRESTRESSED CABLE Sika® Intraplast®	DUCTS Sika® Intraplast® Injection aid and expanding agent for on site cemen- titious grout. Liquid or powder form
RAIL FIXING Icosit® KC range	Icosit® 2-Pack Polyurethane structural grout for rails fixing with outstanding mechanical performances and vibra- tion & noise reduction. Polyurethane Grout for Rail Fixing
SEALING & BONDING Sikaflex [®] range SikaHyflex [®] range	Sikaflex®, SikaHyflex® Polyurethane high performance joint sealant for concrete joint Range of 1-component, moisture-curing, elastic joint sealant. Low or high modulus version available

ON SITE CONCRETE ELEVATED - LINE





Sikadur[®] 31 SBA

Thixotropic, structural two part adhesive especially formulated for segmental bridge construction. Type: O2 for use on substrate temperatures between + 30°C to 45°C Type: O8 for use on substrate temperatures between + 40°C to 60°C





AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS







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ON SITE CONCRETE ELEVATED - STATION



Several elevated Stations will take place along the Line.

These structures, build in reinforced concrete systems, shall allow easy passengers movements.

Due to its particularity, the structure shall offer a safe and friendly environment, where various facilities will be part of the whole station system, requiring diverse construction systems

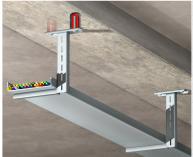
Hereafter, Sika solutions for on site Station construction.

	SikaCrout®, Sikadur® or Polyurethane structural grout for columns fixing, rails og mechanical performances and vibration & noise reduction Non-shrink definition as per ASTM C 1107 applies Tested according to EN 1504-6:2006,
PRESTRESSED CABL Sika® Intraplast®	E DUCTS Sika® Intraplast® Injection aid and expanding agent for on site cemen- titious grout. Liquid or powder form
RAIL FIXING Icosit® KC range	Icosit® 2-Pack Polyurethane structural grout for rails fixing with outstanding mechanical performances and vibra- tion & noise reduction. Polyurethane Grout for Rail Fixing

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ON SITE CONCRETE ELEVATED - STATION







STRUCTURAL ANCHORING & FIXING Sika AnchorFix®-1

Sika® AnchorFix®

Sika AnchorFix®-1	Solvent- and styrene free based two part polyester anchoring adhesive
Sika AnchorFix®-2	Solvent and styrene free, epoxy acrylate based, two part anchoring adhesive.
Sika AnchorFix®-2 Tropical	Solvent- and styrene free, epoxy acrylate based, two part anchoring adhesive for tropical/hot climate conditions
Sika AnchorFix®-3+	High-perfromance, 2-part epoxy anchoring adhesive



FIRE PROTECTION SYSTEMS Sika® Unitherm®

Sika[®] Unitherm[®]

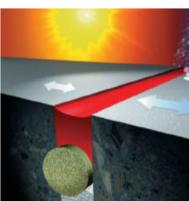
Intumescent coating system for steel structures and electrical cable Fire protection system approval: ASFPCM, BSI FM 832, Deutscher Institu fur Bautechnik, BAM (Z-19.11-290), FM approval class 4970



PROTECTIVE COATII	NG
Sikagard [®] range	
Sika® Dovitar® E	

Sikagard®, Sika® Poxitar® F

Epoxy base protective coating for steel or concrete



SEALING & BONDING	Sikaflex®, SikaHyflex®, SikaSil®
Sikaflex [®] range	Polyurethane high performance joint sealant for concrete joint
SikaHyflex [®] range	Range of 1-component, moisture-curing, elastic joint
	sealant. Low or high modulus version available
Sika® Firerate	Fire Resistant (Intumescent) Joint Sealant
Sikasil®-670 Fire	Fire rated, 1-component, moisture-curing,
	low-modulus elastic joint sealant.
Sikacryl®-620 Fire	Fire rated connection joints and penetration seals on
	porous and non-porous substrates.
Sikaflex [®] -400 Fire	fire rated, 1-component, moisture-curing, elastic joint sealant.

ON SITE CONCRETE ELEVATED - STATION





BUILDING FINISHING SikaCeram[®] range

SikaCeram® Premium Grout

Sika® Skim Coat

ROOFING Sikalastic®

G SikaCeram®, OPTIROC Cementitious high performance tiles adhesive meeting requirements classes C1,C2, D &R and tile grouting. Cementitious grout filler for ceramic tile joint

Powder for surface finishing

Sikalastic[®] Range of modified polyurethane base liquid applied elastic membrane





WATERPROOFING LININGSikaProof® Membrane, SikaTop® Seal 107SikaProof® MembraneBitumen modified elastic liquid applied membraneSikaTop® Seal 107Flexible Protective and Waterproofing Slurry. 2 compo-
nents mortar for basement, wet area, drinking water
tank. Sikagard® range Epoxy base protective coating
for steel or concrete



INTERIOR SEALING SikaBoom® AP

SikaBoom[®] AP 1-part, multi-position, highly expansive fixing foam

ON SITE CONCRETE UNDERGROUND - LINE



The use of TBM-technology is the most common excavation method due to the local geology and hydrology. Once built, the tunnel system shall guarantee a safe and a dry environment for any Metro users. Optimized cost and easy maintenance will be the key objectives for any solutions.

Hereafter, Sika solutions for on site Underground Line construction.

PRODUCTS FOR TBM Sika® Foam TBM Sika® Stabilizer TBM Sika® Drill TBM	Sika [®] Foam, Sika [®] Stabilizer, Sika [®] Drill Range of foam surfactant agent for ground excavation in tunnels driven by EPB TBM. Range of grease for first filling, continuous filling (tail sealing) and main bearing grease Range natural polymer liquid viscosifier and stabilizer for foams and other water dispersed fluids
2 COMPONENTS GROU Sika® Bentonite Sika® Set GV (Sika® Injectoset) Sika® Stabilizer BF	JT Sika® Bentonite, Sika® Set, Sika® Stabilizer Natural sodium bentonite, a chemically stable clay that provides predictable long term performance suitable for many types of civil engineering applications. Set accelerating admixture for cement / bentonite stabilized and retarded injection grouts Liquid admixture for stabilizing and retarding cement/ betonite grout
REACTING RESIN GRO SikaFix [®] -1xx SikaFix [®] -2xx	UTING - POLYURETHANE SikaFix® (2 K PU Foaming resin) a quickly foaming (45 sec) resin with short reaction times. Foams in contact without and with water up to 10-20 times (2 K PU (compact) Resin) is a quick-reacting (40 sec) resin with short reaction times and high final strength (80 N/mm ²). Foams slightly in contact with water up to 3 times.
REACTING RESIN GRO SikaFix®-5xx SikaFix®-6xx	OUTING -SILICATE SikaFix [®] (2 K Silicate Foaming Resin) quickly foaming (30-fold) resin with short reaction times (15 sec.). Reacting with itself, in case of water no change of technical properties (2 K Silicate Resin) non-foaming, non-flammable resin with short reaction times (40 sec.)Very good adhesion even on damp surfaces. Reacting with itself, in case of water no change of technical properties

ON SITE CONCRETE UNDERGROUND - LINE







PRECAST SEGMENT JOINT WATERPROOFINGSika® HydrotiteSika® Hydrotite rangeLarge range of Hydrophilic Water Swelling Strip for
sealing joints between precast segmental of tunnel.

ON SITE CONCRETE UNDERGROUND - STATION



Same as for elevated stations, various facilities will be hosted in the underground space. Hereafter, Sika solutions for on site Underground Station.



INJECTION HOSE SikaFuko®

Sika[®] Injection

SikaFuko®, Sika® Injection Injection hose as waterstop for diaphragm wall construction Reactive injection resin product range part of SikaFuko® system.



STATION GENERAL WATERPROOFING

Sikaplan®

ATERPROOFING Sikaplan® PVC or FPO elastic waterproofing membrane sheet for complete waterproofing of the below ground construction

Additional to Sikaplan[®] system other joints system: Sika[®] Dilatec[®], Sikadur[®] Combiflex[®], SikaFuko[®], SikaSwell[®]



JOINT WATERPROOFI	NG Sika® Waterbars®, Sikadur® Combiflex®
Sika® Waterbars®	Flexible thermoplastic PVC strips designed to stop the migration of water through construction and expansion joints in concrete structures.
Sikadur [®] Combiflex [®]	High performance pre-formed waterstop, strips for movement, construction joint
Sika® Omega joint	Elastomer based, flanged waterbars for large movement and high water pressure requirement

ON SITE CONCRETE UNDERGROUND - STATION









SHOTCRETE APPLICATION Sigunit® Range of Set accelerating



Range of Set accelerating liquid or powder shotcrete accelerator for wet or dry process sprayed concrete. Available in Alkali Free or non Alkali Free base.



DEWATERING SikaShot® SikaShot® Ready to use waterproofing gunite with very fast setting to seal water seepage by spraying

Once the underground support has been built, one the waterproofing system has been installed, the construction of the inner building will take place and Sika Products systems as proposed for the Elevated Station remain valid and applicable. Please refer to pages.



Sikaflex® - Sika® AnchorFix® - SikaBoom® - Sikafloor® - SikaGrout® - SikaCeram® - Sika Unitherm®,

products are completing the range of products required for architectural work within the Underground Station

SIKA CONCRETE REPAIRS & PROTECTION SOLUTIONS

REPAIR DESCRIPTION	DEFECT / SCOPE	BONDING AGENT	REPAIR MATERIAL
Cosmetics Surface Repair all Concrete Structures	Surface Blemishes, Grooves, Seams, Small Rock Pockets	None	Sika® Skim Coat
Super Structure Concrete (Compressive Strength > 40 MPa)	Honey Combs, Voids – No Steel Exposed	Sikadur® -x32	Sika® MonoTop® range
Form and Pour – None Shrink Grout	Honeycombs, sub and upper structure (Depth < 70mm)	None	SikaGrout® range Antisol® range
Form and Pour – None Shrink extended Grout	Large Honeycombs, sub and upper structure (Depth > 70mm)	Sikadur® -x32	SikaGrout® range +Aggregate Antisol® -E White
Structural Repair to Shear Keys	Broken shear key edge	Sikadur [®] -x32	Sikadur® -x41
Structural Crack Repair for all Structural Concrete	Pressure Injection, Cracks > 0.3 mm width	None	Sikadur® -x31 Sikadur® -x52
Structural Crack Repair for all Structural Concrete	Low Pressure Injection, Cracks > 0.3 mm width	None	Sika® GroutPack® -1 Sika® GroutPlug® -A Sika® SK Pump-4 Sikadur® -x52
Structural Crack Repair for all Structural Concrete	Gravity Feeding, Cracks > 2.0 mm width	None	Sikadur® -x32
Non Structural Crack Repair for all Structural Concrete	Crack < 0.3 mm	None	Sikagard®-xxx

- Sika[®] Skim Coat : powdered compound for surface defects repairs.
- **Sikadur**[®] : epoxy resin or adhesive or mortar for structural injection repairs.
- **Sika**[®] GroutPack[®] -1, Sika[®] GroutPlug[®] -A, Sika[®] SK Pump-4 : injection accessories for low pressure injection system.
- **SikaGrout**[®] range : one component cementitious non shrink grout aggregate size 4 mm.
- Sika® MonoTop® range : one component cementitious repair mortar.
- Antisol[®]range : wax based or sodium silicate base liquid curing membrane.
- **Sikagard**[®] **-xxx** : low viscosity reactive impregnation for concrete protection.

OTHER SIKA BROCHURES FOR UNDERGROUND CONSTRUCTION

TO DOWNLOAD THE SPECIFIC BROCHURE, PLEASE CLICK ON THE PICTURE



SIKA AT WORK GOTTHARD BASE TUNNEL Project of the Century



CONCRETE PRODUCTS FOR TBM



SIKA TECHNOLOGIES FOR MINING





र्शीएगा 🔐



WATERPROOFING GROUND CONSOLIDATION, STABILIZATION AND WATERSTOPPING



WATERPROOFING SIKA SOLUTIONS FOR WATERTIGHT TUNNEL STRUCTURES



WATERPROOFING Sikaplan® WP/WT TAPES







SIKA SOLUTIONS FOR SPRAYED CONCRETE



SikaFiber® TECHNOLOGY

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION

Concrete Production



Plastiment[®] Sikament[®] Sika[®] ViscoCrete[®] SikaFume® SikaFibers® Antisol®

Plastocrete® SikaPlast[®] Sika[®] AER Sika® TBM products Sigunit® Separol[®]

Waterproofing



Sika[®] Waterbars Sika[®] Hydrotite Igoflex[®]

Sikalastic® SikaSwell[®] profile SikaFuko® Sika[®] Injection Systems

Flooring



Sikafloor[®] Epoxy EpoCem[®] HyCem® PurCem[®] **Chapdur®** Sikafloor[®] ProSeal Sikafloor[®] Dry shake hardener

Corrosion and Fire Protection



SikaCor[®]

Concrete Repair and Protection



Sika[®] MonoTop[®] Sikagard[®] Sikadur®



Structural Strengthening



Sika[®] CarboDur[®] Sikadur®

SikaWrap[®]

Joint Sealing



Sikaflex[®] SikaHyflex[®] lgas®

SikaSil[®] Sikacryl® SikaBond®

Grouting



Sikadur® lcosit[®]

SikaGrout®

Roofing



Sarnafil® SikaRoof[®] MTC[®]

Sikaplan®



SIKA (THAILAND) LIMITED

700/37 Moo 5 - Amata Nakorn Industrial Estate Bangna-Trad KM. 57 · Tambol Klong Tamhru Muang District - Chonburi - Thailand 20000 Tel : +66 3810 9500 · Fax: +66 3821 4286 E-mail : sikathai@th.sika.com · www.sika.co.th

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