TREPAX INNOVATION









SPECIALIST CONSTRUCTION BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POL ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR ACRYLIC COATING . POLYURETHANE . POLYUREA . CAR PARK WATERPROOFING . CEMENT BASE . BITUMINOUS . EPDM . ACRYLIC COATING . PO RETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATE EMENT BASE . BITUMINOUS . EPDM . ACRYLIC COATING . POLYURETHANE . POLYUREA . CAR PARK WATERPROOFING . CEMENT BASE . BITUMINOUS DM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POI URETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATE CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • OM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POL urethane • Polyurea • Car Park waterproofing • Cement Base • Bituminous • EPDM • Acrylic Coating • Polyurethane • Polyurea • Car CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • DM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POI urethane • Polyurea • Car Park waterproofing • Cement Base • Bituminous • EPDM • Acrylic Coating • Polyurethane • Polyurea • Car • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATEI CEMENT BASE • BITUMINOUS • EPDM • ACRYLIC COATING • POLYURETHANE • POLYUREA • CAR PARK WATERPROOFING • CEMENT BASE • BITUMINOUS •



Cement Base

FlexSEAL AC50

Flexible Waterproofing Coating

FlexSeal AC50 is a 2 part composite slurry coating, based on high grade acrylic polymers. Once applied the coating serves to protect concrete and masonry structures from the negative effects of water, moisture, chlorides and carbonation.

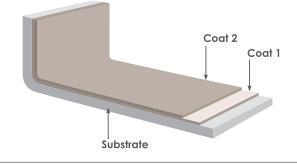
Features

- Resistant to water pressure up to 7 bar making it suitable for use in both water retaining and water excluding structures
- Resistant to the effects of carbonation and chloride
- · Very high bond strength to most construction materials providing a long lasting durable seal against the effects of after penetration
- UV and weather resistant suitable for external situations where a durable long lasting seal against water penetration is required
- Non toxic, making it suitable for use in tanks or areas where potable grade water is stored
- Odorless liquid nature makes application both easy and safe in difficult confined areas

Areas of Use

- Water storage tanks
- Swimming pools
- Basement walls
- Planter boxes
- Tunnels

- Retaining walls and foundations
- Plaza decks
- Balconies
- Roofs







FlexSEAL AC50

FlexSEAL AC50

CrystalSEAL LIQUID

Capillary Waterproofing System for Concrete & Mortar

This is a single component clear colourless liquid applied waterproofing system for concrete or cement based substrates that provides a permanent solution to leakage, seepage or ingress of water, by sealing micropores and capillaries, through a chemical reaction between the concrete and crystal seal liquid, the passage of water is effectively blocked, providing permanent water tightness for the lifetime of the structure.

Features

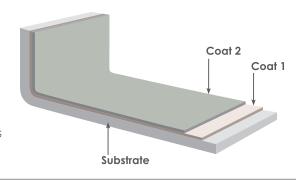
- Provides integral waterproofing by impregnation of the active chemicals that become a permanent part of the structure
- Protects against waterborne corrosive substances that can corrode reinforcement
- · Active chemicals remain active and will reactivate in contact with water providing additional protection against leakage
- Effective for negative and positive pressures
- Proven worldwide waterproofing system

Areas of Use

Water Retaining Structures Water Excluding Structures

- Concrete pipes
- Swimming pools
- Reservoirs
- Dams
- Tanks

- Basements
- Tunnels
- Retaining walls and foundations
- Bridge decks
- Replace water-bar in static construction joints



Epoxy ChemSEAL CT70 **Chemical Resistant Coal Tar Epoxy Coating**

Combines the high strength and durability of epoxy resin chemistry, whilst adding the excellent water resistant properties of coal tar producing a chemical and water resistant, solvent free, high performance, epoxy waterproofing coating. It is useful in numerous chemical resistant applications such as linings, secondary membranes and anti skid trafficked coatings it can be applied to concrete and steel substrates, both vertically and horizontally

Coat 2 Coat 1 Primer Substrate

Features

- An economical long term protective solution against attack by a wide range of chemicals
- Application to a wide variety of substrates, easy application by spray or roller
- Excellent adhesion & abrasion resistance
- Unaffected by continuous immersion in contaminated, fresh or salt water

Areas of Use

- Waste water tanks & collectors
- Sewage networks
- Chemical production & storage
- Tank farms
- Steel & concrete pipes
- Saline immersed structures
- Anti-skid coatings
- Acid resistant membranes



ChemSEAL CT70

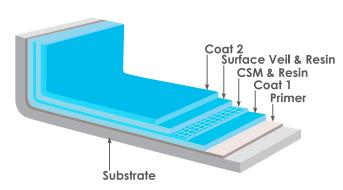
ChemSEAL EP220 **Chemical Resistant Epoxy Coating System**

This is a 2 part high solids, highly chemical resistant and hygienic epoxy coating system, used to protect non trafficked concrete and steel surfaces from sustained chemical attackin corrosive environments. It is also suitable for use where an antibacterial coating system is required in clean or food processing areas and will cure to form a hard dense glossy impervious surface suitable in performing in the most arduous of environments.

Features

- High build glass reinforced coating system
- Long term protection and performance against a wide range of chemicals including aggressive acids
- Hygienic and easily cleaned
- Suitable for use with potable water

- Chemical storage and process areas
- Food & beverage production
- Water and chemical storage tanks
- Clean rooms
- Tank farm retaining walls and floor areas





ChemSEAL EP220



ChemSEAL EP220

Polyurethane

ElastoSEAL HB100

Modified Polyurethane High Build Liquid Membrane

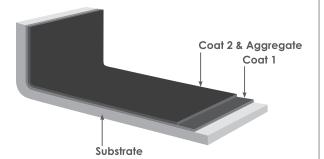
This high build polyurethane liquid membrane, which provides continuous protection against the damages of water and liquid based chemicals, by providing a permanent watertight seal with a strong mechanical bond. Fast and easy application by brush, roller, squeegee or airless spray, up to a range of thicknesses with or without fibre reinforcement and is supplied in a standard black colour. Chemically cures to form a tough flexible membrane that will not embrittle due to UV exposure. Can be used under finishing systems such as tiles, screeds, and decorative coatings.

Features

- Meets the requirements of ASTM C836
- High elongation and tensile strength
- High bond strength to most construction materials
- Resistant to UV and aggressive chemicals
- Crack bridging technology
- Seamless and watertight
- Trafficable systems possible
- Easy to apply
- Long lasting durable waterproofing membrane

Areas of Use

- Roofs
- Tanks
- Secondary protection
- Planter boxes
- Waste water treatment
- Chemical storage
- Ramps and car parks
- Wet areas
- Basements





ElastoSEAL HB100

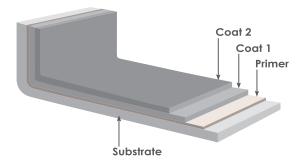
ElastoSEAL HB200 UV Resistant Liquid Applied PU Waterproofing Membrane

This highly elastic liquid polymer waterproofing membrane can be applied by brush, roller, squeegee or airless spray to a thickness of 1mm. and above, producing a rapid setting high build waterproof finish that gives high elongation capabilities, making it ideal for below or above ground concrete substrates due to HB200s excellent adhesion, meaning priming is not normally required. It can also be used in conjunction with geotextile reinforcement and can be applied to most construction surfaces, including green concrete. It is impervious to water and provides an effective watertight barrier.

Features

- Exceeds ASTM C836 performance specifications
- Dynamic crack-bridging ability
- Excellent UV and weathering resistance
- Does not embrittle with age
- High chemical Resistance
- Excellent adhesion with most construction materials
- Easily applied
- High elongation and tensile strength
- Non toxic

- Waterproofing component for built up systems i.e. foam insulation, tiles, screeds etc.
- Under slab or tile membrane for wet areas where chemicals or processed
- Roofs
- Tank linings
- Car parks with or without non slip finishes
- Basements
- Facades and walls
- Plaza decks
- Secondary containment
- Membranes





ElastoSEAL HB200

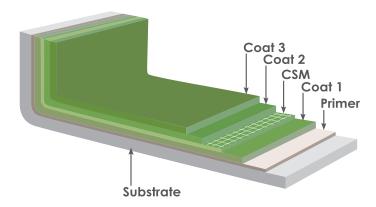
Acrylic FlexSEAL AC505 Acrylic Liquid Membrane

FlexSeal AC505 is a single part acrylic liquid roofing and façade waterproofing system, designed for flat or pitched roofs. It is based on highly flexible acrylic polymers that give the applied membrane the ability to bridge cracks and withstand the destructive effects of natural weathering such as high temperatures and rain whilst still allowing vapour to pass through the membrane reducing the risk of blistering and cracking. Suitable for many substrates including built up felt, timber and tiles. AC505 is also decorative.

Features

- Non-toxic excellent resistance to UV, weathering and mould
- Trafficable, decorative and easily maintained
- High adhesion with most common construction materials
- Tough flexible & breathable with crack bridging properties
- Easily applied seamless liquid membrane

- Waterproofing membrane suitable for concrete, metal, wood, asphalt substrates
- These include, hotels, apartments and high rise buildings, hospitals, bridges, underpasses and industrial buildings







FlexSEAL AC505

FlexSEAL AC505





FlexSEAL AC505

FlexSEAL AC505

Membrane

Self Adhesive

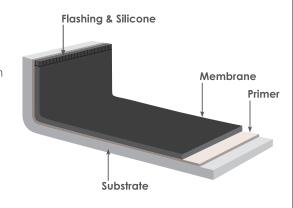
BituSEAL SA150 / SA200

1.5-2mm Polymer Modified Sheet Membrane

These cold applied multi layered reinforced self adhesive bitumen sheet membranes are 1.5 mm and 2 mm thick and consists of 2 layers of high quality SBS Polymer modified bitumen separated by a reinforcing layer. This self adhesive bitumensheet with a sleeved edge enables easy application of over laps to ensure continuous bonding of the overlapped layers of membrane sheet. It provides an excellent barrier against vapour and water, in both above and below ground uses and where corrosive ground water salts are present.

Features

- Excellent elongation and recovery
- Self sealing of minor punctures
- Good permanent adhesion
- Excellent water and vapour barrier
- Controlled thickness
- Reinforcing layer for added strength and durability
- Double protection of PE and bitumen layers
- Cold applied
- Single layer simple application with continuous overlaps
- Corrosion resistant



Membrane System



- Waterproofing of basements
- Waterproofing of roof and plaza deck
- Foundation protection
- Roof gardens and terraces
- Secondary protection







BituSEAL SA

Torch On BituSEAL TA

Polymer Modified Reinforced Torch Applied Waterproofing Membrane

These APP polymer based membranes with their highly reinforced spun bound fabric matrix make them extremely tough offering excellent static and dynamic puncture resistance, they also provide a very good water and vapour resistant barrier and are ideal for both above and below ground applications. On exposed surfaces, protect with a mineral finish, sand/cement screed or aggre gate top dressing. To ensure a proper seal is achieved a comparable sealant may be used for all terminations.

Features

- Excellent elongation and recovery
- High puncture resistance
- Good permanent adhesion
- Excellent water and vapour barrier
- Controlled thickness
- Reinforcing layer for added strength and durability
- APP polymer modification
- High tensile strength
- Selvedge for easy alignment
- Specially embossed underside to gauge correct melting point



BituSEAL TA



BituSEAL TA

- Waterproofing of basements
- Waterproofing of roof and plaza deck
- Foundation protection
- Roof gardens and terraces
- Secondary protection

BituSTICK R250

Polyester Surfaced Self Adhesive Waterproofing Protective Membrane

BituStick R250 is a SBS modified bituminous, self adhesive sheet membrane laminated onto a tough polyester fleece to provide a highly superior waterproofing and protective membrane for underground concrete structures. A selvedge is provided on one side of the membrane to give a bitumen to bitumen contact on the overlaps, thus restricting any water penetration through the laps.

Features

- Protection membranes for bitumen based membranes, tapes and coating on pipes and complicated profiles
- High puncture and tear resistance
- Enhanced UV resistance
- Good chemical resistance
- · Easy to apply. Cold applied
- Completely non bio-degradable

Areas of Use

- Protection for bitumen membranes tapes and coatings
- Good on vertical surfaces
- Pipes and complicated profiles
- Used as replacement for protection boards where soft back fill is used
- Areas where anti root properties are required, as a membrane
- Waterproofing and damp proofing layer for underground structures
- Waterproofing of roof gardens



BituSTICK R250







ChemSEAL VE ChemSEAL VE

Lining

ChemSEAL VE Systems

BituSEAL TA

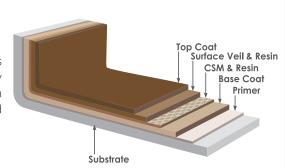
2 and 3 PLY Vinyl Ester FRP Chemical Resistant Lining Systems

These are highly chemical resistant lining systems based on vinyl ester polymers with 2 ply and 3ply glass fibre layers and the two systems are suitable for, 2ply light to medium duty and 3ply medium to heavy duty lining applications, both systems are usually finished with a clear top coat, although a grey coloured topcoat is also available.

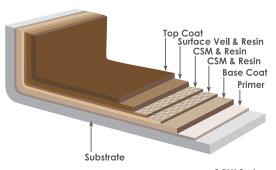
Features

- High temperature resistance
- Good resistance to oxidising acids
- Excellent resistance to solvents
- Good resistance to alkalis
- Long term protection against a wide range of chemicals
- Excellent adhesion to concrete and steel

- Chemical storage and process areas
- Food and beverage production
- Chemical storage tanks
- Tanks & process equipment
- Waste water treatment
- Membranes



2 PLY System



3 PLY System

EPDM (Ethylene Propylene Diene Monomer)

Is an extremely durable synthetic rubber roofing membrane, it is widely used in low slope buildings world wide. EPDM is available in black or white and comes in a wide variety of widths and with thicknesses of 45 and 60 mils, it can be installed either fully adhered, mechanically fastened or ballasted. The seams of this roofing system are sealed with liquid adhesive or specially formulated adhesive tapes.

Features

- Cyclical membrane fatigue resistance
- High resistance to ozone, weathering and abrasion
- Superior resistance to extreme heat and fire
- Thermal shock durability
- Ultraviolet radiation resistance

TPO (Thermoplastic Polyolefin)

Is a very tough and durable roofing membrane that has many advantages, it has strong physical properties due to a polyester fabric layer which helps provide high tear resistance, also the whole layered system is extremely tough and provides a high degree of puncture resistant, TPO will not degrade under UV radiation and is highly reflective, making it ideal in hot sunny countries in helping energy reduction and cooling costs for building owners. The seams of this roofing system are heat welded.

Features

- Excellent light reflection properties
- High puncture and tear resistance
- Exceptional heat resistance, solar UV, ozone and oxidation
- Excellent chemical resistance

PVC (Polyvinyl Chloride)

PVC is a strong, tough and versatile sheet membrane that is ideal for reroofing or new construction projects and can be fully adhered to the roof, PVC also has excellent tear and puncture resistance, Along with good chemical resistance

Features

- High puncture and tear resistance
- Fewer seams than modified bitumen systems
- Highly reflective to sunlight
- Good chemical resistance to acid Rain, fats and oils

Areas of Use for 3 Systems

- Roofing of low slope structures
- Waterproofing of roofs
- Steel deck roofs corrugated and fluted
- Concrete roofs
- Applied over existing roof material
- Insulation laid system

Polyurea

This is a very fast setting 2 part 100% solids coating that can be applied to many substrates and materials/ surfaces. It is relatively insensitive to moisture and temperatures. The material reacts within seconds and once cured forms a flexible, durable, tough surface. Polyurea is extremely effective when used as a primary or secondary containment coating, whether applied over concrete, steel, earth or on Geotextile fabric. Polyurea is applied using high pressure, heated plural component spray proportioning equipment.

Features

- VOC free no odour and UV resistant
- Fast reactivity, cure time, almost immediate return to service
- High impact abrasion and tear resistance
- Seamless, flexible and tough
- Good adhesion to many substrates
- Good corrosion protection, salt water resistant, outdoor weathering

- Airports
- Food and chemical processing plants
- Oil, Gas and petrolium industries
- Cold storage facilities
- Waterproofing roof areas
- Shipbuilding, containers,
- Impact protection, isolation, sound acoustics.
- Corrosion protection, structural steel, bridges, tanks













EPDM System





Polyurea System

Car Park PolyDECK 3000 Waterproofing

UV stable flexible polyurethane car park coating system. Multi component, polyurethane resin based, flexible protection system for car park decks which has excellent abrasion resistance, waterproofing and crack bridging capabilities.

System

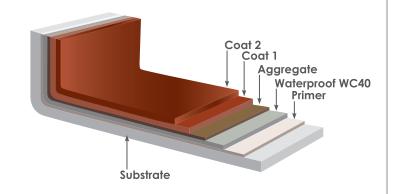
This consists of a primer, flexible wear coat, anti-slip aggregate and a UV stable polyurethane based top coat.

Features

- Flexible tear resistant and waterproof
- Multi-purpose application
- Seamless and easy to apply
- Highly durable & abrasion resistant
- UV stable, can be applied on exposed areas

Areas of Use

- Car park decks, ramps & turning areas
- Trafficable flat roofs
- Entrance and exit areas
- Plant rooms
- Stadiums, Industrial floors
- Helipads & airport hangers









PolyDECK 3000 MMA PolyDECK 3000

MMA

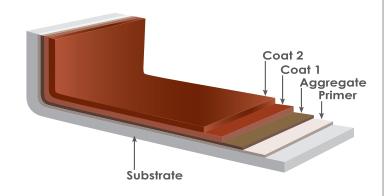
High Performance Car Park Deck System

This high performance hardwearing and fast track car park deck system has excellent uv resistance and is highly tolerant to other extreme elements such as heavy rain and high levels of humidity. Due to the fast curing nature of the material, several layers can be applied the same day, giving a short downtime for application, making it an ideal system for owners/users.

Features

- Extreme weather immunity.
- High tolerance to humidity during application
- All layers resistant to rain after 1 hour. irrespective of ambient temperature
- Application temperatures range from -10 $\mathring{\mathbb{C}}$ to +35 $\mathring{\mathbb{C}}$
- Several layers can be applied on the same day

- Car park decks
- Factory floors
- Sports arenas and Stadia
- These are just a few of the areas where MMA floors can be installed, in fact almost any flooring problems any where can be solved using MMA flooring system



	Products	Structure		Pressure						
No.		Fair	Good	Positive	Negative	Chemical Resistance	Chemical Compound	Water Retaining Tank (non-toxic)	Lean	Floor & W Outside Undergro
1	FlexSEAL AC50	Х	•	•	Х	X	Cement	•		**
2	CrystalSEAL Liquid	0	•	•	0	0	Cement Crystalization	•		
3	ChemSEAL CT70	X	•	•	X	•	Ероху	Х		
4	ChemSEAL EP220	X	•	•	Х	•	Ероху	0		
5	ElastoSEAL HB100	0	•	•	Х	•	Polyurethane	Х		**
6	ElastoSEAL HB200	0	•	•	X	•	Polyurethane	X		
7	FlexSEAL AC505	Х	•	•	Х	0	Acrylic	Х		
8	BituSEAL SA	0	•	•	X	Х	Asphalt Bituminous	Х		
9	BituSTICK R250	0	•	•	X	X	Asphalt Bituminous	X		
10	BituSEAL TA	0	•	•	X	X	Asphalt Bituminous	X		
11	ChemSEAL VE	0	•	•	X	•	Vinyl	0		
12	EPDM	0	•	•	X	•	Ethylene Propylene Diene Monomer Poly Olefin	X		
13	TPO	0	•	•	Х	0	Themoplastic Poly Olefin	X		
14	PVC	0	•	•	Х	•	Poly Vinyl Chloride	Х		
15	Polyurea	0	•	•	Х	•	Polyurea	0		
16	PolyDECK 3000	0	•	•	Х	Х	Polyurethane	Х		
17	MMA Car Park	0	•	•	Х	0	Methyl MethaCrylate	Х		

Remark X Can not use

O Can use average performance

Can use very well

	Area Of Use									
ıll	Floor & Wall Inside Underground	Floor & Wall Inside Waste Water Treatment	Floor & Wall Inside Water Tank	Floor & Wall Inside Swimming Pool	Metal Sheet	Roof Garden	Roof Top	Bath Room & Kitchen Room	Balcony	Wall Outside Building
				*				*	*	
				*				*	*	
		**	**							
						*	*	*	*	
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	*					*	*			
	*					*	*			
	*					*				

Remark * With topping on top

** With FRP

*** With insulation board underlay (For Steel Roof)

JOB REFERENCES FOR WATERPROOFING SYSTEMS

PROJECT	CLIENT	SYSTEM	AREA (m²)
Honda Sawadi	Thai Shimizu	Cement Base	1,700
Fuse Moius	RTH Construction	Cement Base	5,400
The Niche ID	Sangfah Construction	Cement Base	2,300
MRT Green Line	Ch.Karnchang	Cement Base	1,800
Liv@5 Sukhumvit	Natural Thai Location	Cement Base	1,600
Unicharm	Thai Kajima	Cement Base	1,300
Mazda	Thai Kajima	Cement Base	1,700
Amari Huahin	Italian Thai Development	Cement Base	2,400
Bridgestone	Sino-Thai Engineering & Construction	Crystallization	1,900
l Biz	Power Line Engineering	Crystallization	1,600
Holiday Inn Pattaya	Syntec Construction	Crystallization	5,300
RDC Suratthani	Thai Industrial & Engineering Service	Crystallization	2,900
Thailand Tobacco Monopoly	Ch.Karnchang	Crystallization	5,400
TOA	Christiani & Nielsen (Thai)	Crystallization	2,200
Thailand Tobacco Monopoly	Ch.Karnchang	Polyurethane	17,000
Carpark Building of Courtier	Teamvis Construction	Polyurethane	5,000
Nissin Foods	Poteam Builder	Polyurethane	4,400
Hatyai University	S.T. Engineering	Polyurethane	4,900
NSK	Thai Maeda	Polyurethane	1,000
Provincial Waterworks Authority-Pathum thani	S.Napa(Thailand)	Acrylic	2,300
Provincial Waterworks Authority-Khon Kaen	Vongsayam Korsang	Acrylic	3,000
TGM	Poteam Builder	Acrylic	4,300
Major Avenue Ratchayothin	Standard Performance	Acrylic	3,900
Shinkawa	Ch.Karnchang	Acrylic	4,100
Provincial Waterworks Authority-Bang len	Ch.Karnchang	Acrylic	5,500
PTT PL Silo	Christiani & Nielsen (Thai)	Acrylic	3,500
B gallery	B.S.Y	Acrylic	3,600
PTT GC	PTT GC	Sheet Membrane	2,500
Essilor	Thai Nisshin Plant	Sheet Membrane	5,000
Central Embassy	Italian Thai Development	Sheet Membrane	8,900
Takata	Thai Shimizu	Sheet Membrane	2,600
Toyota Boshoku	Thai Takenaka	Sheet Membrane	3,100
Children Hospital	Power Line Engineering	Sheet Membrane	2,000
Amari Huahin	Italian Thai Development	Sheet Membrane	4,600
CP Ram	Christiani & Nielsen (Thai)	Sheet Membrane	2,500
Thanya Shopping Park	Ritta	Sheet Membrane	2,700
CP Ram	Teka Consturction	Ероху	1,400
Fuse Moius	RTH Construction	Ероху	1,400
Central Surat Thani	Italian Thai Development	Ероху	5,000
BNC	Thai Fukuda	Ероху	1,600
CP Ram	Christiani & Nielsen (Thai)	Ероху	1,400
Usui	Thai Shimizu	Epoxy FRP Lining	5,100
Honda Sawadi	Thai Shimizu	Vinyl Ester FRP Lining	6,900
JFE Steel	Thai Obayashi	Vinyl Ester FRP Lining	1,500
Rayong Olefin	Taisei	Epoxy FRP Lining	2,500
PPT LNG	Christiani & Nielsen (Thai)	EPDM	7,000
Siam Kubota	Siam Kubota	Car Park	7,900