Business Alliances Countries:

SINGAPORE | INDONESIA | THAILAND | VIETNAM | CHINA | TAIWAN

USA | AUSTRALIA | INDIA | QATAR | OMAN | UAE

Headquarters

ZACKLIM FLAT FLOOR SPECIALIST SDN BHD

No. 70-1, Jalan PJS 5/30,
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Telephone: +603-7782 2996

Fax: +603-7782 1196

E-mail: zfs@zacklim.com

Branch

ZACKLIM-SRQ CONCRETE FLOOR SDN BHD

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Telephone: +6082-629 369

Fax: +6082-622 369

E-mail: zsr@zacklim.com

Branch

PT Zacklim Superflat Indonesia

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Dukuh Pakis, Dukuh Pakis Kota Surabaya

Jawa Timur 60225, Indonesia.

Telephone: +62 315 668 757

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E-mail: indo.admin@zacklim.com

SealSource INTERNATIONAL — Improving Where the World Stands

aci American Concrete Institute — Always advancing

SOCOTEC — UKAS MANAGEMENT SYSTEMS 0063

STANDARDS

ZACKLIM

Zacklim Flat Floor Specialist

Completed over 46 million square feet of concrete floors

- **Superflat Floor**
  For Warehouses
- **ZackPave**
  For Airport Runways
- **ZPS**
  Zack Polymer Screed
- **HARDEN X™**
  Lithium Hardener / Densifier
- **Zackea**
  Dry-Shake Hardener Floor System

www.zacklim.com

THE CONCRETE FLOOR SPECIALIST

Company Background

Zacklim Flat Floor Specialist Sdn Bhd is a leading floor specialist founded in Malaysia. Began as Zacklim Industrial Works Sdn Bhd in 1984 the company has since then amassed vast experiences in construction of factories, warehouses, cleanrooms amongst its early notable projects were Western Digital and Nestlé Distribution Center.

In 1998 Zacklim Industrial Works Sdn Bhd (ZIW) was appointed the main contractor for Nestlé Distribution Centre. During the 1990s there were no reputable floor specialists Malaysia that could deliver in superflat floors and this provided a somewhat daunting opportunity for Zacklim Industrial Works Sdn Bhd to venture into the superflat flooring business. Together with an Australian specialist team comprising of consultants and skilled personnel specializing in concrete floor designs and construction, and utilizing some of the finest and state-of-the-art machinery from SOMERO® laser screeding machines. The company have, over the years, evolved a team of certified floor specialists in the Zacklim Group that is second to none in Malaysia and many parts of the Asian region and are capable of producing floors of world class standard.

In the year 2000 Zacklim Flat Floor Specialist Sdn Bhd was established and incorporated with the mission of producing world standard quality floor finishes that are flat, level and long lasting. Our flagship project was IKEA car park, located at Mutiara Damansara that was completed in 2003 which till today still stands as arguably the most outstanding car park in Malaysia.

Achievements

When Zacklim Flat Floor Specialist Sdn Bhd started its foray into the concrete flooring industry in year 2000 the company has achieved significant in-roads by completing notable flooring jobs like IKEA (both Malaysia and Singapore), GIANT D.C in Salak Tinggi, PROTON City, SMART Tunnel, LCCT, TESCO Scott Garden, KLIA2, etc.

PHILOSOPHY

Our philosophy rests on working closely with clients and consultants in ensuring our commitment to achieve fast track job with professionalism, quality, cleanliness and safety. Clients often appreciate our innovative construction methods with high quality finishing.

We are sensitive to our clients' requirements and intrinsic needs for quality, cost and timely completion of their projects and post projects service. We strive to continuously infuse in our trained personnel work ethics of the highest order and learn to react positively in changes and developments of technology.

VISION and MISSION

To consistently strive to advocate the importance & knowledge of constructing commercial & industrial concrete flooring of world class standards in the Asian region by year 2018.

To promote world class concrete flooring we are committed to sharing & propagating the virtues of best concrete practices to applicators, professionals including contractors who are committed to constructing concrete floors of the highest standard.

www.zacklim.com
SuperFlat Floor

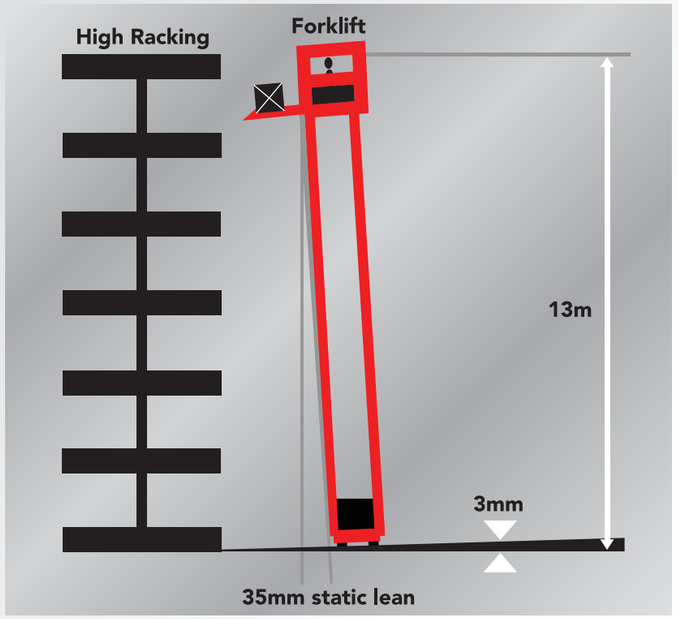
Superflat Floor

For Warehouses

A floor that achieves a very high standard of flatness and is very conducive for material handling equipment which are required to operate up to 16 meters in height. This is a must for industrial applications e.g. : warehouse and factory where a very high degree of flatness and levelness is required to improve efficiency, reduce maintenance and avoid industrial accidents.

Benefits of Superflat Floor

- High Efficiency
- Low Vehicle Maintenance
- Low Floor Maintenance
- High Abrasion Resistance
- Dust Free



ZackPave

Concrete pavement has been successfully used for airport runways to very good effect. The usage also applies to highways and outdoor open areas as they have proven to be highly durable, long-lasting and relatively more cost effective in the long run. Study has shown that using concrete pavement will also help to save fuel, increases night visibility and reduces noise level while driving.

APPLICATION AREAS:
Road
Apron
Hanger
Outdoor Parking Area
Petrol Station

GIANT Distribution Center (Exterior)

KLIA 2

LCCT

Senai Airport

www.zacklim.com

ZackPave

Concrete Paver

Paving In Action

Paving In Action

Broom Finish

SMART Tunnel

ZACKEA - A Benchmark For All Other Flooring Systems..

ZACKEA is a proven monolithic coloured concrete floor system that is widely acclaimed to be very resistant to wear and tear. It does not require the need to apply and re-apply floor coatings unlike epoxy, polyurethane etc.. Treated with a coat of nano lithium concrete densifier, it hardens and seals the floor surface and protect against oil penetration.
Obvious advantages: very easy and economical to maintain.

LCCT

IKEA, SINGAPORE

TESCO, Scott Garden

TECHNICAL DATA

Compressive Strength	: 63.8 N/mm² (ASTM C 942-99)
Abrasion Resistance	: 70.3 mg weight loss & wear index at 1000 cycles (ASTM D4060)
Skid Resistance	: Wet: 62 Dry : 82 (ASTM E303)
Water Absorption	: 4.89 % (BS 1881 : Part 122)
Pull Off Adhesion Test	: 967 Psi (ASTM D4541)
Chemical Resistant Test (Acid, detergent & engine oil)	: No objectionable alteration on the surface (ASTM D1308)

- Green product - Environmental friendly
- Extremely high abrasion resistance
- Does not delaminate
- Very low maintenance
- Resist oil penetration
- Durable with sheen - light reflective
- Long term cost saving - no recoating
- Self-polishing - the more traffic, the better it shines.
- Moisture resistance

www.zacklim.com

ZACKEA Dry-Shake Hardener Floor System

CITY-LINK Warehouse

FREIGHTMARK Warehouse

MYDIN Warehouse

Colour Chart

* Colours shown may vary from actual colours on concrete

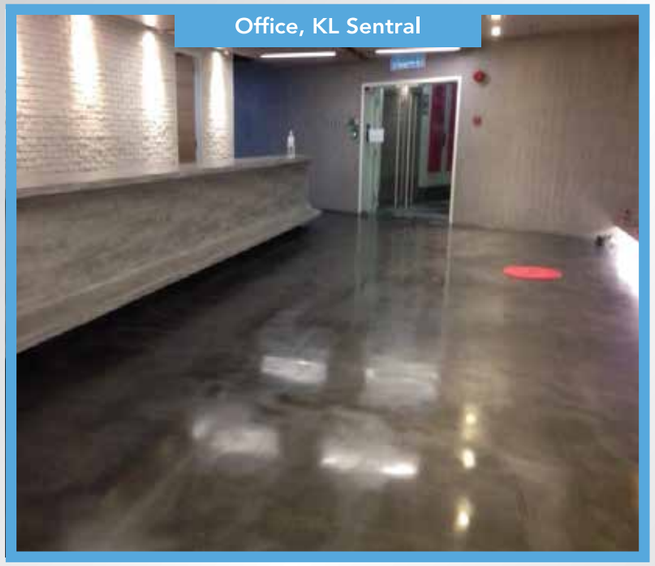
ZACKEA - SLIM

Same floor finish can be done using up to 50mm thin topping system which comprises of micro-concrete reinforced with polypropylene fibres.

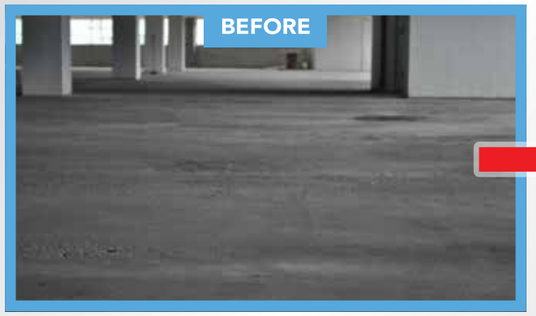
ZPS Zack Polymer Screed

ZPS - A Floor Transformer System Proven To Save Problematic Floors..

ZPS is a thin polymer screed system that is applied onto rejected floor without having to remove it. The floor finish can range from basic to high polish with flatness control. It is most suitable to refurbish old existing floors in car parks, offices, retails, factories, warehouse, etc. This system is designed to hide undulation, repair damaged floor and also to brighten up the ambient lighting for the end users.



Warehouse, Section 15



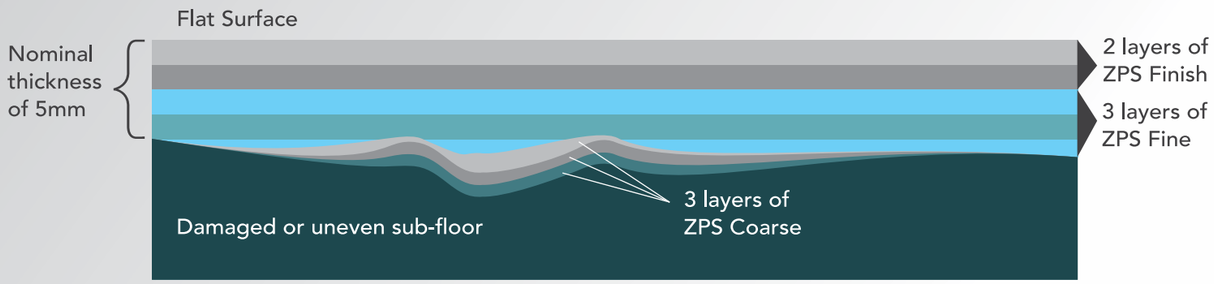
Wisma Shell

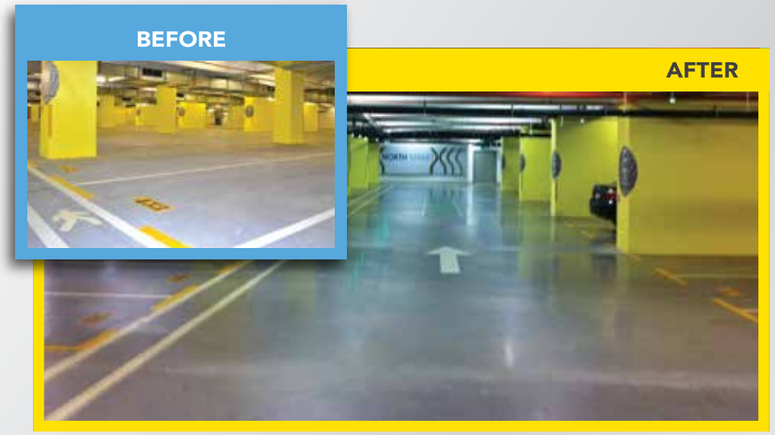
Jaya One

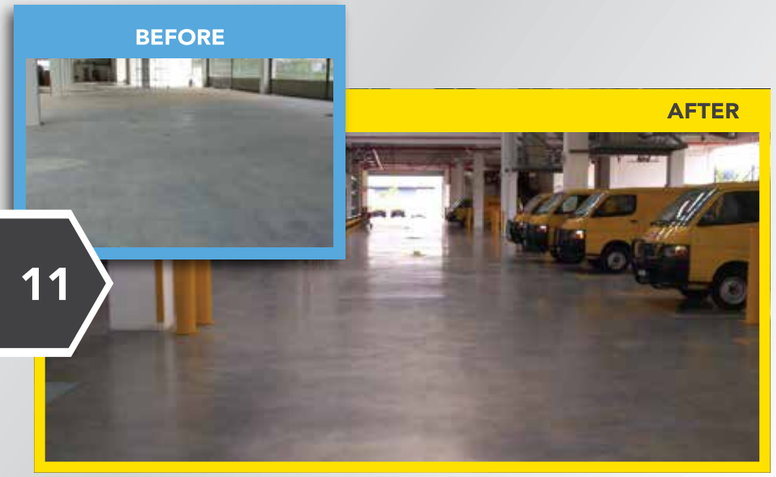
www.zacklim.com

ZPS Zack Polymer Screed

- Eliminates floor undulation
- Repair damaged floor without hacking
- Enhances appearance
- Minimal effect on head room
- Flat surface finish
- Increases safety
- Smooth operation for forklifts
- Good grip
- Ready to receive finishing (tiles, paint, parquet, etc)
- Seamless
- Fast drying







EXTERIOR / INTERIOR USE ON NEW OR EXISTING CONCRETE

Using the most advanced nano technology in the industry, the lithium formulation of Harden X™ enhances concrete hardness and protection against dusting, moisture, abrasion, bacteria and general wear & tear sustained by both interior and exterior surfaces over time. Harden X™ is not a coating, it completely penetrates the surface to become part of the structure in just one application to reduce cracking, no peeling or flaking.

ENVIRONMENTAL ADVANTAGES

- LEED® Certified - Meets EQ Credit 4.1: Low emitting materials / adhesives & sealants
- No VOCs
- Water-based
- Odorless
- Eliminates dusting of concrete surfaces for improved air quality
- Concentrated material means lower application rate, fewer containers, less fuel used in shipping due to lower product weight, reduced shipping costs

Warehouse • Manufacturing Facilities • Restaurants • Food Processing Plants • Car Parks • Convention Centers Schools • Showrooms • Hospitals • Hotels • Sports & Entertainments Venues • Transportation Terminals • Stations

Harden X™ Application Methods

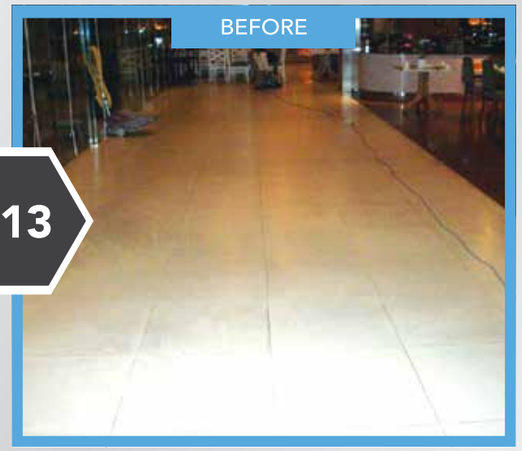
Features of Harden X™ :

- Dust-Free - water resistant & abrasion resistant
- Increase Surface Hardness - achieve superior concrete surface strength
- Durable - one-time installation provides long-lasting protection
- Fast Drying - dries in 10 minutes, open to traffic in 30 minutes
- Light Reflective - mirror-like sheen, brightens interior spaces
- Stable In All Environmental Conditions - protection against moisture, algae, bacteria
- Low-Maintenance - minimal downtime & maintenance costs

DuraGloss™ Penetrating Lithium Sealer

INTERIOR / EXTERIOR USE

DuraGloss™ is a polishable, light-reflective material that provides superior resistance to stains, water, oil, dusting, and abrasion. Available in two formulations, this lithium-based product has a deep, rich sheen that enhances the natural look of concrete and intensifies the color of concrete imprint, coloured-pigmented floor and ceramic tiles. DuraGloss™ outlasts any other product of its kind which combined with its aesthetic value makes it an excellent treatment for both industrial and retail applications.



Features of DuraGloss™ :

- Polishable
- High-gloss or satin sheen
- Light reflection
- Eliminates the need for acrylic sealer or wax
- Reduces downtime and maintenance costs
- Won't peel, flake or turn yellowish
- Increases resistance to stains, water, oil, dusting, and abrasion
- Improves slip-resistance
- Exceeds OSHA and ADA COF

Application on surfaces:

Timber
Tiles
Vinyl
Marble

ENVIRONMENTAL ADVANTAGES

- LEED® Certified - Meets EQ Credit 4.1: Low emitting materials / adhesives & sealants
- No VOCs
- Water-based
- Odorless
- Eliminates dusting of concrete surfaces for improved air quality
- Concentrated material means lower application rate, fewer containers, less fuel used in shipping due to lower product weight, reduced shipping costs

Warehouse • Manufacturing Facilities • Parking Garages • Distribution Centers • Retail Stores • Convention Centers Schools • Restaurants • Hospitals • Hotels • Sports & Entertainments Venues • Correctional Facilities • Terminals • Stations

Other Services

Floor Measurement Service

We are the certified company by FACE® Construction Technologies, INC and Allen Face® LLC to measure floor flatness and levelness using Dipstick and F-meter respectively.

A thorough report will be given in full accordance to ASTM E-1155M.

Floor Measurement Instruments

Dipstick

F - meter

SMG AXIOM 1155

Floor Consultancy

We provide expert advices

- New floor design
- Floor defects investigation and solutions
- On-site practical operations
- Material Specification

SOMERO S-15R Laser Screeding Machine

SOMERO S-485 Laser Screeding Machine

SOMERO COPPERHEAD Laser Screeding Machine

MANIPAV Laser Screeding Machine

SOMERO PowerRake Machine

Magic Screed

Truss Screed

Ride-On Power Float

Walk-Behind Power Float

Hardener Spreader

Channel Float

Project Photos

All stages of finishing process

www.zacklim.com

Project Photos

FreightMark Warehouse (ZACKEA Natural)

P&G, Vietnam (Burnished Floor)

H2C Warehouse, QATAR (Burnished Floor)

Pan Asia Logistics Warehouse

Menara Nationwide (ZACKEA Light Grey)

IKEA Distribution Center

Shoon Fatt Warehouse VNA Floor

Lam Soon Warehouse

Overseas and Local Projects

QATAR

- 2010 - H2C Building. Superflat, 30,000 m2

INDIA

- 2010 - CARREFOUR India. SR2, 13,000 m2

VIETNAM

- 2008 - INTEL Warehouse,Ho Chi Minh. SR2, 4,000 m2
- 2010 - 3rd PROCTER & GAMBLE Factory for Indochina Limited VSIP 2A. SR2, 11,000 m2

THAILAND

- 2006 - WESTERN DIGITAL Factory, Thailand. SR3, 15,000 m2
- 2008 - National Convention Centre, Bangkok. SR3, 1,000 m2
- 2013 - UNILEVER D.C.2, Bangkok. ZACKEA, 50,000 m2

SINGAPORE

- 2003 - EDELWEISS Condominium Car Park, Singapore. SR2, 26,000 m2
- 2005 - GLS Warehouse, Singapore. FM2, 12,000 m2
- 2006 - IKEA Car Park & Shopping Area, Singapore. SR2, 35,000 m2
  - Tobacco Factory, Singapore. SR2, 9,000 m2
- 2010 - ROLLS-ROYCE FoF & Hub. Superflat, 13,000 m2

PULAU PINANG

- 2000 - MSAS Logistic Warehouse, Penang. SR1, 30,000 m2
- 2002 - VINTEL, Penang. SR1, 1,200 m2
- 2004 - PRIORITY Sdn Bhd Warehouse, Penang. SR1, 3,177 m2
- 2006 - CMT Factory, Penang. Burnish Superflat, 5,000 m2
  - JP Printer, Bukit Minyak, Penang. SR2, 10,000 m2
- 2007 - SANKYU (M) Sdn Bhd Warehouse. SR2, 4,500 m2
  - SIMPLETECH Electronics Sdn Bhd Warehouse. SR1, 5,000 m2
- 2013 - BARKATH CO-RO Manufacturing Facility, Butterworth. SR3, 2,023 m2
- 2014 - Sandisk Storage Malaysia, Pulau Pinang, SR2. 23,000 m2
- 2017 - Sandisk Storage Malaysia, Pulau Pinang, FF30. 33,606 m2
- 2018 - IKEA Batu Kawan, SR1 & SR2. 90,000 m2

Kelantan

- 2008 - Sultan Ismail Petra Airport Hanger. ZACKPAVE, 1000 m2

Kedah

- 2001 - Sungai Petani Hospital. SR2, 50,000 m2
- 2005 - INTEL Factory at Kulim Hitech, Kedah. SR2, 8,600 m2
- 2006 - Hospital Alor Setar, Kedah. SR2, 52,000 m2
  - INFINEON Power Fab Factory, Kulim. SR2, 29,854 m2
- 2008 - TESCO Mergong, Alor Setar. SR3, 23,000 m2

Perak

- 2002 - UPSI, Tanjung Malim. SR 2, 30,000 m2
  - PROTON City Factory. SR 2, 105,000 m2
- 2012 - GUINEA Foods Warehouse, Taiping. ZACKEA, 5,384 m2

Overseas and Local Projects

Kuala Lumpur

- 2006 - AEON Jusco, Kepong. SR2, 12,000 m2
  - SMART Tunnel , KL. ZACKPAVE, 100,000 m2
- 2007 - DUA Residency Condominium, KL. ZPS, 4,000 m2
  - Kompleks KDN, Bukit Aman. SR3, 27,600 m2
- 2009 - PAVILION Bus Parking & Loading Area. ZACKEA, 9,500 m2
  - KLGCC Mont Kiara. ZACKEA, 3,500 m2
  - JKR Store, Jalan Chan Sow Lin. SR2, 1,270 m2
- 2010 - TESCO, Jalan Klang Lama. SR2, 28,000 m2
- 2011 - BIG Supermarket, Solaris Dutamas. ZACKEA ,7575 m2
  - Intan Permata, TTDI. ZPS, 6,000 m2
- 2012 - Menara HUP SENG, KL. SR2, 14,862 m2
  - VOLVO Showroom, Jalan Chan Sow Lin. ZACKEA
  - BMW Showroom, Segambut. 1,200 m2
  - Plaza Toll Loke Yew. ZACKPAVE, 17,500 m2
- 2013 - Pantai Hospital at Jalan Bukit Pantai. SR2, 35,165 m2
  - KL SENTRAL Basement Car Park. ZACKEA, 5,744 m2
- 2014 - Menara Public Bank Car Park KL. FF30 FL20, 20,336 m2
- 2015 - IKEA Cochrane Cheras KL. FF40 FL30 ; FF30 FL25. 97,000M2

Negeri Sembilan

- 2007 - BESIKRAFT Warehouse. SR2, 4,000 m2
- 2010 - TESCO Car Park Seremban. SR 2, 12,552 m2
- 2012 - AKASHI KIKAL Factory, Mukim Labu. ZACKEA, 12,089 m2
- 2014 - Mapei Malaysia, Nilai. FF30 FL20, 14,247 m2
- 2018 - Mapei Malaysia, Seremban. FF30 FL20, 4,070 m2

Melaka

- 2006 - GIANT, Melaka. SR3, 11,000 m2
- 2009 - CTRM, Melaka. SR2, 9,000 m2
- 2014 - Mydin,Melaka. SR2, 25,000 m2

Johor

- 2007 - Century Total Logistic Warehouse D16 & D18 at Tanjung Pelepas. SR2, 17,928 m2
- 2008 - SENAI Airport, Airside Infrastructure. ZACKPAVE, 41,680 m2
  - CENTURY TOTAL Logistic Warehouse D12 at Tanjung Pelepas. SR2, 15,600 m2
- 2012 - SHELL Station, Pasir Gudang. ZACKEA, 1,800 m2
- 2013 - Biopharmaceutical Manufacturing Facility, Package C1SA at Nusajaya, Johor. ZACKEA, 19,225 m2
- 2015 - Mydin, Johor. SR2, 36,000 m2
- 2017 - Pan Asia Logistics Warehouse at PTP, Johor. FF35. 47,000 m2
  - IKEA Tebrau, Johor. FF40 FL30 ; FF30 FL20. 92,000m2

Selangor

- 1998 - NESTLE Distribution Centre, Klang. SR2, 45,000 m2
- 2001 - Malaysian Institute Aviation Technology (MIAT), Sepang. SR1, 50,000 m2
- 2002 - WESTERN DIGITAL, Sungai Way. SR2, 20,000 m2
- 2003 - IKEA Mutiara Damansara. SR2, 65,000 m2
- 2004 - SITT TATT Factory,Bukit Raja, Klang. SR2, 10,000 m2
  - FLEXTRONIC Factory, Shah Alam. SR2, 18,000 m2
- 2006 - Sentosa Kajang Hospital. SR2, 7,000 m2
  - Laksamana Puri Condominium, Batu Caves. Burnished Floor, 10,000 m2
  - LCCT Apron. ZACKPAVE, 53,000 m2
  - MYDIN Warehouse, USJ. SR2, 20,000 m2
  - FREIGHT MARK Warehouse, Shah Alam. SR2, 21,000 m2
  - JAYA JUSCO, Balakong. SR3, 10,000 m2
  - GRANDEUR Warehouse, North Port. SR2, 7,000 m2
- 2007 - GIANT Warehouse, Kinrara, Puchong. SR3, 17,000 m2
  - KLIA Aircraft Workshop & Hanger. ZACKEA, 15,000 m2
  - SACC Warehouse, Shah Alam. SR3, 9,000 m2
- 2008 - GIANT Warehouse, Kota Damansara. SR2, 16,000 m2
- 2009 - GIANT D.C. , Salak Tinggi. SR1, 56,000 m2
  - CITTA Mall, Ara Damansara. Moderate Floor, 43,000 m2
- 2010 - Wisma SHELL Car Park, Cyberjaya. ZPS, 20,000 m2
- 2011 - AF 02, KLIA 2, Sepang. ZACKPAVE, 15,200 m2
  - TESCO, Kelana Jaya. ZACKEA , 1,643 m2
  - IKEA Warehouse Shah Alam. Harden X, 12,000 m2
- 2012 - Subang Airport Warehouse. ZACKEA, 6,000 m2
  - IOI Putrajaya. ZACKEA, 65,739 m2
  - AF01, KLIA 2. ZACKPAVE, 74,033 m2
- 2013 - CITY-LINK Warehouse, Bandar Saujana Putra. ZACKEA, 16,434 m2
  - JAYA ONE, Jalan Universiti. ZACKEA, 33,020 m2
  - MRT Station, Sungai Buloh. ZACKEA, 19,914 m2
  - MADGE MANSION Condominium Cheras, ZACKEA, 12,415 m2
  - DHL, Shah Alam. SR2, 100,000 m2
- 2014 - Freight Management, Klang. F50 FL30, 13,950 m2
- 2015 - Q Cells Malaysia Warehouse, Sepang. SR2, 14,000m2
- 2016 - Gamuda GM Car Park, Klang. ZPS, SR2, 25,034m2
  - Maple Tree Warehouse, Shah Alam. FM2, 205,058 m2
- 2017 - Axis-REIT-Nestle Warehouse Banting Selangor. FF50,FL30, 45,000 m2
  - Lam Soon Warehouse, Sepang. FF50 FL30 / FF30 FL20, 23,585 m2
- 2018 - Area Ventures Multi Warehouse, Gombak. FF30, FL20, 90,000 m2
- 2019 - IOI Resort City Mall, Sepang. SR2, 100,00 m2
  - IKEA Distribution Centre, Klang. SR1, 92,938 m2
  - Daikin Warehouse, Shah Alam. FF30 FL20, 26,084 m2
  - Perodua Manufacturing Warehouse. FF30 FL20, 11,700 m2

Sarawak

- 2008 - MERDEKA MALL Car Park, Miri. SR2, 7,600 m2
  - Borneo Convention Centre Kuching. ZACKEA, 12,000 m2

Completed over 46 million square feet of concrete floors

ZackHard
Dry-Shake Hardener

- 25 kg

ZackHard
Colour Chart

* Colours shown may vary from actual colours on concrete

ZPS (Bag)
Polymer Screed Mix

- 25 kg

ZackBond
Bonding Agent / Polymer

- 20 liter
- 200 liter

ZPS
T-blade

Harden X™
Lithium Densifier

- 1 liter
- 5 liter
- 20 liter
- 208 liter

DuraGloss™
Lithium Sealer

- 1 liter
- 5 liter
- 20 liter
- 208 liter

CureHard 309™
Curing Compound & Hardener

- 20 liter
- 208 liter

ZackCure
Curing Compound

- 20 liter
- 200 liter

ZackPeel
Epoxy / P.U. / Paint / Coating Remover

- 1 gallon