

SPECIFICATION OF MATERIALS

For UNIT PENDIDIKAN



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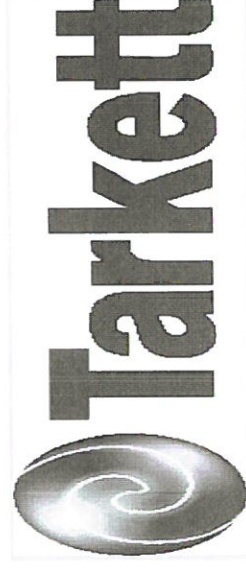
Subject	Specifications Of Material For School/ University/ Education Centre
Sub Subject	Vinyl Flooring, Carpet Flooring & Entrance Matting System
Attn.	Sr. Raja Normawati Binti Raja Ayob
Company Name	JKR Cawangan Ukur Bahan
Company Address	Juruukur Bahan Penguasa Kanan, Bahagian Khidmat Kos dan Inovasi, Cawangan Kontrak dan Ukur Bahan, Ibu Pejabat JKR, Kuala Lumpur.
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SPECIFICATION OF MATERIALS

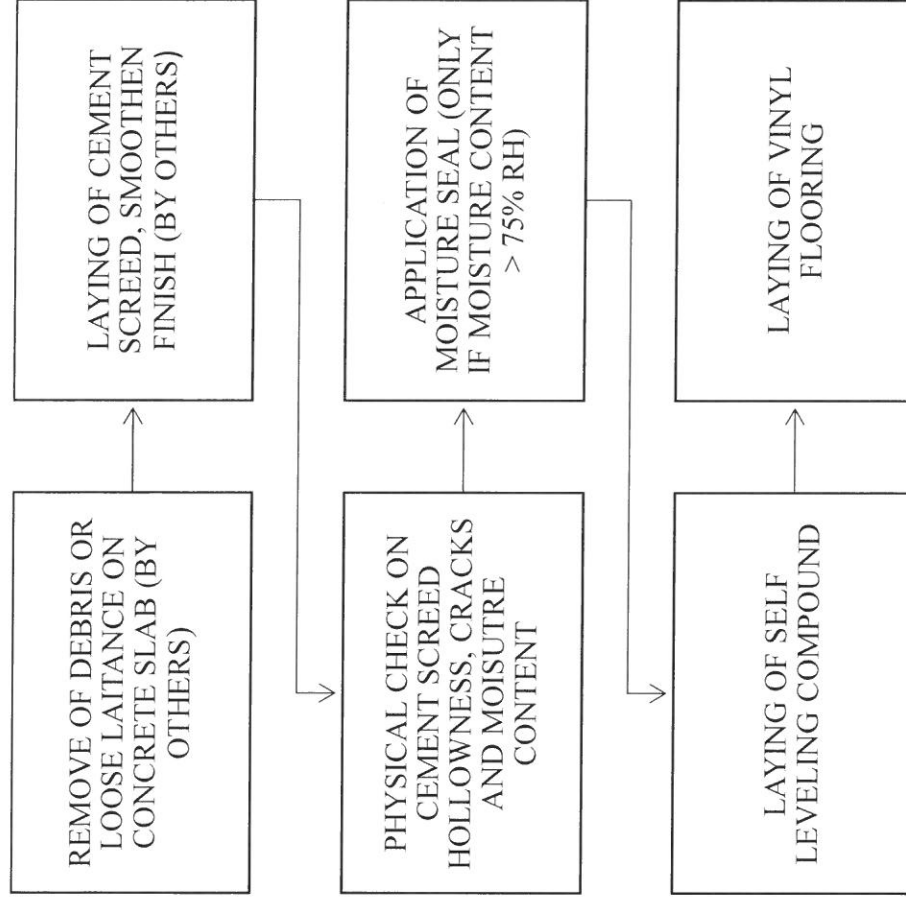
- SCHOOL/ UNIVERSITY/ EDUCATION CENTRE

TARKETT VINYL

- CLASSROOM, SEMINAR HALL, LECTURE HALL, TUTORIAL ROOM, MEETING ROOM, PRAYER ROOM, OFFICE, LIBRARY, LABORATORY, INDOOR SPORT



SEQUENCE OF VINYL WORK



Note: Laying of self-levelling compound and vinyl shall only be carried out when the building is completely water tight as per manufacturer instruction.

PRODUCT SPECIFICATION – TARKETT VINYL SHEET

No	Guidelines for Floor Finishes	General Specification	Area to be Applied
1	Heavy Duty & Chemical Resistance	Homogeneous/ Heterogeneous Heavy Duty Vinyl Sheet, 2mm thick wear layer, with PUR Reinforced & Homogeneous/ Heterogeneous Chemical Resistance Vinyl Sheet, with PUR Reinforced	Corridor/hallway, lift car, classroom, hall, cafeteria, stage, lobby area, office, library, meeting room, prayer room, seminar room, lecture room, tutorial room, laboratory
2	Static Dissipative	Homogeneous Static Dissipative Vinyl Sheet, with PUR Reinforced	Telco
3	Anti Slip	Homogeneous Anti Slip Vinyl Sheet, with Safe.T clean XP™	Kitchen, toilet, ramp
4	Acoustic	Homogeneous/ Heterogeneous Acoustic Vinyl Sheet, PUR Reinforced	Child play area, rehabilitation, gym, multipurpose hall, indoor sport

HOMOGENEOUS VINYL - PREMIUM COLLECTION

ECLIPSE PREMIUM & PRIMO PREMIUM

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HEAVY DUTY FLOORING & CHEMICAL RESISTANCE	TARKETT ECLIPSE PREMIUM & PRIMO PREMIUM To supply and lay 2mm thick approved PUR (polyurethane) surface treatment, Type I wear layer binder content complying with ISO10581, fully flexible heavy duty homogeneous, NON-BACKING vinyl sheet, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days class Platinum complying with ISO16000-9 air quality standard, requires no wax maintenance for life with factory warranty, with non-directional design and including approved acrylic adhesive and matching welding rod heat weld all seams Roll Dimension : 2mmT x 2mW x 23mL Wear Layer Thickness EN ISO 24346 : 2mmT Surface Treatment: PUR	To floor - RM 110/M2 To Skirting 100 mm bend up - RM 32/MR

PRIMO SD

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
2	STATIC DISSIPATIVE VINYL FLOORING	TARKETT PRIMO SD To supply and lay 2mm thick NON BACKING Static Dissipative homogeneous vinyl flooring, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days, Type I wear layer binder content group complying with ISO10581 with electrical resistance EN 1081 $R1 \leq 10^8$ ohms, with and including approved acrylic adhesive and matching welding rod heat weld all seams, c/w factory confirmation certificate on country of origin. Roll Dimension : 2mmT x 2m W x 23mL Wear Layer Thickness : 2mmT Electrical resistance EN1081 : $R1 \leq 10^8$ ohms Surface Treatment : PUR	To floor - RM 125/M2 To Skirting 100 mm bend up - RM 37/MR

PRIMO SAFE T

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
3	ANTI SLIP VINYL FLOORING	TARKE T PRIMO SAFE T To supply and lay 2mm thick approved heavy duty homogeneous NON-BACKING ANTI-SLIP vinyl sheet, with slip resistance R10, with low VOC - <10 µg/m³ at 28 days, Safe.T Clean XP™ reinforcement for easy maintenance with and including approved acrylic adhesive and matching welding rod heat weld all seams, c/w factory confirmation certificate on country of origin. Roll Dimension : 2mmT x 2mW x 23mL Slip Resistance : TRRL Pendulum > 36 : DIN51130 R10 Surface Treatment : Safe.T clean XP™	To floor - RM 120/M2 To Skirting 100 mm bend up – RM 36/MR

HOMOGENEOUS VINYL - SOMPLAN COLLECTION

SOMPLAN 100

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HEAVY DUTY FLOORING & CHEMICAL RESISTANCE	TARKE TT SOMPLAN 100 To supply and lay 2mm thick approved PUR (polyurethane) surface treatment, Type II wear layer binder content complying with ISO10581, fully flexible heavy duty homogeneous, NON-BACKING vinyl sheet, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days class Platinum complying with ISO16000 air quality standard, requires no wax maintenance for life with factory warranty, with directional design and including approved acrylic adhesive and matching welding rod heat weld all seams Roll Dimension : 2mmT x 2mW x 23mL Wear Layer Thickness EN ISO 24346 : 2mm T Surface Treatment: PUR	To floor - RM 75/M2 To Skirting 100 mm bend up - RM 27/MR

SOMPLAN 200

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HEAVY DUTY FLOORING & CHEMICAL RESISTANCE	TARKETT SOMPLAN 200 To supply and lay 2mm thick approved PUR (polyurethane) surface treatment, Type II wear layer binder content complying with ISO10581, fully flexible heavy duty homogeneous, NON-BACKING vinyl sheet, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days class Platinum complying with ISO16000 air quality standard, requires no wax maintenance for life with factory warranty, with directional design and including approved acrylic adhesive and matching welding rod heat weld all seams Roll Dimension : 2mmT x 2mW x 23mL Wear Layer Thickness EN ISO 24346 : 2mmT Surface Treatment: PUR	To floor - RM 85/M2 To Skirting 100 mm bend up - RM 29/MR

SOMPLAN 350

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HEAVY DUTY FLOORING & CHEMICAL RESISTANCE	TARKETT SOMPLAN 350 To supply and lay 2mm thick approved PUR (polyurethane) surface treatment, Type II wear layer binder content complying with ISO10581, fully flexible heavy duty homogeneous, NON-BACKING vinyl sheet, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days class Platinum complying with ISO16000 air quality standard, requires no wax maintenance for life with factory warranty, with non-directional design and including approved acrylic adhesive and matching welding rod heat weld all seams Roll Dimension : 2mmT x 2mW x 23mL Wear Layer Thickness EN ISO 24346 : 2mmT Surface Treatment: PUR	To floor - RM 90/M2 To Skirting 100 mm bend up - RM 30/MR

SOMPLAN SD

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
2	STATIC DISSIPATIVE VINYL FLOORING	TARKETT SOMPLAN SD To supply and lay 2mm thick NON BACKING Static Dissipative homogeneous vinyl flooring, phthalate- free with low VOC - $\leq 10 \mu\text{g}/\text{m}^3$ at 28 days, Type II wear layer binder content with electrical resistance EN 1081 R1$\leq 10^8$ ohms, with and including approved acrylic adhesive and matching welding rod heat weld all seams, c/w factory confirmation certificate on country of origin. Roll Dimension : 2mmT x 2mW x 23mL Wear Layer Thickness : 2mmT Electrical resistance EN1081 : R1$\leq 10^8$ ohms Surface Treatment : PUR	To floor - RM 150/M2 To Skirting 100 mm bend up - RM 42/MR

HETEROGENEOUS VINYL

TAPIFLEX ESSENTIAL 50

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	ACOUSTIC HETEROGENEOUS VINYL FLOOR	TARKETT TAPIFLEX ESSENTIAL 50 To supply and lay Tarkett Essential 50 with 3.30mm thick Heterogeneous PADDED vinyl floor covering(ISO 11638), Class T abrasion group wear layer 0.50mm ,with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, fully flexible with high-density closed-cell foam backing below a glass fibre stabilized carrier, with a foam interlayer to reduce sound transmission to 20dB(EN ISO 717/2), resistance to indentation 0.11mm(ISO 24343-1), phthalate- free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes	To floor - RM /M2 To Skirting 100 mm bend up - RM /MR

RUBY 70/RUBY 70 ACOUSTIC

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HETEROGENEOUS VINYL FLOOR	TARKETT RUBY 70 To supply and lay Tarkett Ruby 70 with 2.00mm thick Heterogeneous COMPACT vinyl floor covering (ISO 10582), Class T abrasion group wear layer 0.70 mm, with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, fully flexible with high-density closed-cell foam backing below a glass fibre stabilized carrier, with a foam interlayer to reduce sound transmission to 20dB(EN ISO 717/2), resistance to indentation 0.11mm(ISO 24343-1), phthalate- free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes	To floor - RM /M2 To Skirting 100 mm bend up - RM /MR

TOPAZ 70

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HETEROGENEOUS VINYL FLOOR	TARKETT TOPAZ 70 To supply and lay Tarkett Topaz 70 with 2.50mm thick Heterogeneous compact vinyl floor covering (ISO 11638), Type I binder content wear layer 0.70 mm ,with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, resistance to indentation 0.11mm(ISO 24343-1), phthalate-free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes	To floor - RM /M2 To Skirting 100 mm bend up - RM /MR

OMNISPORT

No	Standard guidelines for Floor Finishes	Specification	Price (RM)
1	HETEROGENEOUS VINYL FLOOR	TARKETT OMNISPORT - COMPACT To supply and lay Tarkett Omnisport with 2.00mm thick Heterogeneous compact vinyl floor covering (ISO 14041), with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, resistance to indentation 0.10 mm, phthalate- free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes Absorption Level : - TARKETT OMNISPORT - TRAINING To supply and lay Tarkett Omnisport with 5.00mm thick Heterogeneous compact vinyl floor covering (ISO 14041), with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, resistance to indentation 0.10 mm, phthalate- free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes Absorption Level : ≥17 %	To floor - RM 136/M2 To Skirting 100 mm bend up - RM 39/MR To floor - RM 198/M2 To Skirting 100 mm bend up - RM 53/MR

		TARKETT OMNISPORT – MULTI-USE To supply and lay Tarkett Omnisport with 6.10mm thick Heterogeneous compact vinyl floor covering (ISO 14041), with TOP TM CLEAN XP PUR Reinforcement and sanitized built-in bacteriostatic, requires no wax maintenance with factory warranty, resistance to indentation 0.10 mm, phthalate-free with low VOC - <10 µg/m3 at 28 days and including approved acrylic adhesive and matching welding rod heat weld all seams PUR Reinforcement: Yes Absorption Level : $\geq 25\%$	To floor - RM 242/M2 To Skirting 100 mm bend up - RM 62/MR
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ACCESSORIES

No	Specification	Price (RM)
1	Aluminium strip edging Supply and install aluminium strip edging, Grade 6063 T5 25mm x 3mm thick to terminate vinyl and cement render or floor tiles.	RM 30/MR

FBALL SELF LEVELING COMPOUND & MOISTURE BARRIER

No	Specification	Price (RM)
1	SELF LEVELLING COMPOUND Supply and lay FBall Stopgap Redbag protein free self leveling compound complying with EN BS 13813 Class CT-C25-FS, with walking hardness within 3 hours and ready to receiving floor covering within 24 hours, onto smoothen and sound cement screed, with tolerance within SR2, primed with neoprene P131 primer. Thickness 3-4mm Compressive Strength , BS EN 13892-2 (N/mm ²) 1 Day > 6 7 Days > 7 28 Days > 30	To floor - RM 38/M2
2	AREA TO APPLY: It can be used to isolate residual construction moisture where relative humidity values are up to 98% and applied directly over underfloor heating screed with RH readings up to 90%, measured using FBall Digital Hygrometer MOISTURE BARRIER Supply and apply 2 parts FBALL STOPGAP F77 Moisture Seal, solvent free two part epoxy resin system which cures to provide a waterproof surface membrane, with 2 coats at thickness of 200µm each, on to smoothen surface and sound cement screed, can withstand up to 25m hydrostatic water pressure, moisture content or rising dampness shall be measured using FBall Digital Hygrometer prior to application of FBALL F77 Moisture Seal. VOC : not detectable 0 g/L	To floor - RM 56/M2

TARKETT DESSO CARPET

- MEETING ROOM, OFFICE, SEMINAR ROOM



DESSO –DESERT AIRMASTER

No	Specification	Price (RM)
1	DESSO – DESERT AIRMASTER (LOOP PILE) To supply and lay 6.5 mm total thickness which comply to ISO 1765, 3.0 mm effective pile thickness which comply to ISO 1766, 550 g/m² total pile mass, with solution dyed continuous BCF PA 6 Trilogy yarn concept and ECONYL pile fibre type which comply to ISO 2424, classification for use is 33 commercial – heavy use and the flammability Bfl – s1 which complying to EN 986. Cradle to Cradle Certified™ is a certification mark licensed by Cradle to Cradle Certified™ Products Innovation Institute – SILVER Level. Desert Airmaster is available in 12 colour options. Pile Fibre : Solution Dyed BCF Polyamide 6 & ECONYL Dimension : 50 cm x 50 cm (20 tiles per box) Total Thickness : 6.5 mm Effective Pile Thickness : 3.0 mm	To floor - RM 270/M2

ENTRANCE MATTING SYSTEM

- INTERIOR LOBBY ENTRANCE/ INTERIOR MAIN ENTRANCE

GRADUS

GRADUS ENTRANCE MATTING SYSTEM – ESPLANADE 9000

No	Specification	Price (RM)
1	Gradus Entrance Matting System Esplanade 9000 Matting Gradus Esplanade 9000 is a primary entrance barrier matt constructed from rubber wipers and aluminium scraper linking strips which are held together with galvanised steel wires. The rubber wipers are available either plain or interwoven with grey polyester fibres giving options for both interior and exterior applications. Esplanade 9000 is available in 12mm and 18mm thicknesses, open or closed construction and in single or double wiper configuration. It is tested to withstand weights of 250kg per wheel (1000kg over 4 wheels) to a minimum of 30, 000 passes. It is also tested for flammability and slip resistance. Esplanade 9000 can be manufactured to most shapes subject to approval of a template and comes with a 10 year warranty (subject to terms and conditions). When installed as a true rectangle or square Esplanade 9000 can be reversed to extend the product's life. For complete matting solution Esplanade 9000 can also be used with Gradus Boulevard secondary barrier matting. Typical applications: Airports, railway stations, supermarkets with heavy wheeled traffic.	To floor - RM 3200/M2

	Specification of Proposed Esplanade 9000 Matting System – 12 mm closed construction Thickness: 12mm Construction: Closed, single wipers Warranty: 10 years Application: Interior and exterior Material wipers: Rubber (plain or grey) Linking strips: Aluminium Accessories divider bar: T bar 12 Edging strip: ESP8512ES	
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GRADUS ENTRANCE MATTING SYSTEM 6000

No	Specification	Price (RM)
1	Gradus Entrance Matting System Esplanade 6000 Matting Gradus Esplanade 6000 is a primary entrance barrier matt constructed from either ECONYL regenerated solution dyed nylon wipers from the Boulevard 6000 range or black pvc scraper wipers. These are supported with an aluminium base with pvc bridging strips that provide additional strength are combined with pvc linking strips. The Econyl regenerated solution dyed nylon wipers provide excellent soil and moisture retention and are available in a choice of 8 colours. Esplanade 6000 is available in 12mm and 18mm thicknesses, open or closed construction. It is tested to withstand weights of 150kg per wheel (up to 600 kg over 4 wheels). It is also tested for flammability and slip resistance. Esplanade 6000 can be manufactured to most shapes subject to approval of a template and comes with a 10 year warranty (subject to terms and conditions). When installed as a true rectangle or square Esplanade 6000 can be reversed to extend the product's life. For complete matting solution Esplanade 6000 can also be used with Gradus Boulevard secondary barrier matting. Typical applications: Large Hospitals, offices, schools & department store.	To floor - RM 2800/M2

	Specification of Proposed Esplanade 6000 Matting System – 12 mm closed construction Thickness: 12mm Construction: Closed Warranty: 10 years Application: Interior Material wipers: Econyl Regenerated Solution Dyed Nylon Linking strips: PVC black or grey Accessories divider bar: ADB012 Edging strip: EPES4012	
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