



**NIPPON
PAINT**

CMi® CONSTRUCTION WALL & TILE FINISHING SOLUTION

**PLASTER | RENDER • SKIMCOAT • TILE ADHESIVE
WATERPROOFING • ARCHITECTURAL COATING • FLOORSCREED
(VER. 2)**

Protect your building with
PROFESSIONAL
TOTAL COATING &
CONSTRUCTION SOLUTIONS

ARCHITECTURAL | AUTOMOTIVE | DRYMIX | FLOORING | INDUSTRIAL |
MARINE | PROTECTIVE | SEALANT, ADHESIVE & FILLER | WATERPROOFING

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ABOUT NIPPON PAINT CMI®

CMI® is the third biggest cementitious dry mix manufacturer in Malaysia, which position ourselves as a major player in the construction industry. CMI® manufactures and distributes quality cementitious dry mixed prepacked additives; Render, Screed, Skim Coat, Tile Adhesive & Tile Grout, Technical Mortar, Waterproofing Product, Latex Admixture and Chemical Additives, catering wide range of construction needs.

Emphasizing “smooth finishing” as a hallmark of our quality products, CMI® emerges as a reliable partner for achieving successful construction projects. This resonates with our customers seeking beautiful finishing.

CMI® is officially a member of Nippon Paint since 2022. CMI® is part of Nippon Paint as Total Coating and Construction Solutions provider that delivers best in class products and solutions, with perfect finishings and protection, from the floor up to the roof and everything in between of any buildings and constructions.

“ Our mission:
Deliver high quality products and services to our customers. ”

NIPPON PAINT TOTAL COATING & CONSTRUCTION SOLUTIONS



ARCHITECTURAL COATINGS



PROTECTIVE COATINGS



WATERPROOFING SOLUTIONS



FLOORING SOLUTIONS



SEALANT, ADHESIVE & FILLER SOLUTIONS



DRYMIX SOLUTIONS

OUR PROFESSIONAL SERVICES



PROJECT SPECIFICATION CONSULTATION



DETAIL DRAWINGS CONSULTATION



JOB-SITE TECHNICAL SUPPORTS



FORWARD COATINGS EXPO SEMINARS & TRAINING

NIPPON PAINT CMI®

TOTAL COATING & CONSTRUCTION SOLUTIONS








BRICK WALL - INTERNAL

BRICKLAYING	PLASTERING / RENDERING	SKIM COAT (BASE COAT)		SKIM COAT (TOP COAT)		PAINTING (SEALER)	PAINTING (TOP COAT)	
			OR		OR		OR	
CMI® MASONRY MORTAR 086	CMI® MASONRY MORTAR 086	CMI® BASE MORTAR 381 WHITE		CMI® BASE MORTAR 781 GREY		CMI® WALLSKIM 281 WHITE		CMI® WALLSKIM 681 GREY
						NIPPON PAINT INTERIOR WALL SEALER RANGE	NIPPON PAINT INTERIOR PAINT RANGE	

BRICK WALL - EXTERNAL

BRICKLAYING	PLASTERING / RENDERING	SKIM COAT (TOP COAT) - OPTIONAL	PAINTING (SEALER)	PAINTING (TOP COAT)
				
CMI® MASONRY MORTAR 086	CMI® MASONRY MORTAR 086	CMI® BASE MORTAR EX981 GREY	NIPPON PAINT EXTERIOR WALL SEALER RANGE	NIPPON PAINT EXTERIOR PAINT RANGE

SWIMMING POOL

WATERPROOFING		PLASTERING / RENDERING		TILE ADHESIVES			TILE GROUT				
				OR		+		+		+	
NIPOCCEM FLEX		CMI® RENDER 082 SP	CMI® TILEFLEX 186		CMI® TILEFLEX 181		CMI® MORTAR ADMIX 380		CMI® TILE JOINT FILLER		CMI® MORTAR ADMIX 380*




NOTE: *DILUTION 1:1 WITH CLEAN WATER

TILES - INTERNAL

WATERPROOFING		RENDERING / SCREEDING		TILE ADHESIVES		TILE GROUT									
			OR		OR		+		+		+				
NIPOCCEM STANDARD		CMI® RENDER 082 (FOR WALL)		CMI® FLOORSCREED 085 (FOR FLOOR)		CMI® TILEFLEX 186		CMI® TILEFLEX 181		CMI® MORTAR ADMIX 380		CMI® TILE JOINT FILLER		CMI® MORTAR ADMIX 380*	

NOTE: *DILUTION 1:1 WITH CLEAN WATER

TILES - EXTERNAL

RENDERING / SCREEDING		TILE ADHESIVES			TILE GROUT				
			OR		+		+		
CMI® FLOORSCREED 085 (FOR FLOOR)		CMI® TILEFLEX 186		CMI® TILEFLEX 181		CMI® MORTAR ADMIX 380		CMI® TILE JOINT FILLER	

NOTE: *DILUTION 1:1 WITH CLEAN WATER


FLAT ROOF (EXPOSED)

WATERPROOFING		
	OR	
NIPPOSEAL FLEX 200 FIBRE PRO		NIPPOSEAL FLEX 200

FLAT ROOF (CONCEALED)

WATERPROOFING		SCREEDING	
	OR		
NIPPOSEAL FLEX 100		NIPOCEM FLEX	CMI® FLOORSCREED 085

BALCONY/TERRACES

WATERPROOFING		SCREEDING		TILE ADHESIVES			TILE GROUT							
	OR						OR		+				+	
NIPPOSEAL FLEX 100		NIPOCCEM FLEX		CMI® FLOORSCREED 085		CMI® TILEFLEX 186		CMI® TILEFLEX 181		CMI® MORTAR ADMIX 380		CMI® TILE JOINT FILLER		CMI® MORTAR ADMIX 380*

NOTE: *DILUTION 1:1 WITH CLEAN WATER

BLOCK WALL - INTERNAL

BLOCK JOINTING	SKIM COAT (BASE COAT)		SKIM COAT (TOP COAT)		PAINTING (SEALER)	PAINTING (TOP COAT)
		OR		OR		
CMI® BLOCKFIX 187	CMI® BASE MORTAR 381 WHITE		CMI® BLOCKSKIM 782		CMI® WALLSKIM 281 WHITE	CMI® WALLSKIM 681 GREY
					NIPPON PAINT INTERIOR WALL SEALER RANGE	NIPPON PAINT INTERIOR PAINT RANGE

BLOCK WALL - EXTERNAL

BLOCK JOINTING	PLASTERING / RENDERING	SKIM COAT (TOP COAT) - OPTIONAL	PAINTING (SEALER)	PAINTING (TOP COAT)
				
CMI® BLOCKFIX 187	CMI® RENDER 082 SP	CMI® BASE MORTAR EX981 GREY	NIPPON PAINT EXTERIOR WALL SEALER RANGE	NIPPON PAINT EXTERIOR PAINT RANGE

RC WALL - EXTERNAL

PRIOR PLASTERING / RENDERING	PLASTERING / RENDERING	SKIM COAT (TOP COAT) - OPTIONAL	PAINTING (SEALER)	PAINTING (TOP COAT)
				
CMI® PLASTER BONDING AGENT 370	CMI® RENDER 082 SP	CMI® BASE MORTAR EX981 GREY	NIPPON PAINT EXTERIOR WALL SEALER RANGE	NIPPON PAINT EXTERIOR PAINT RANGE

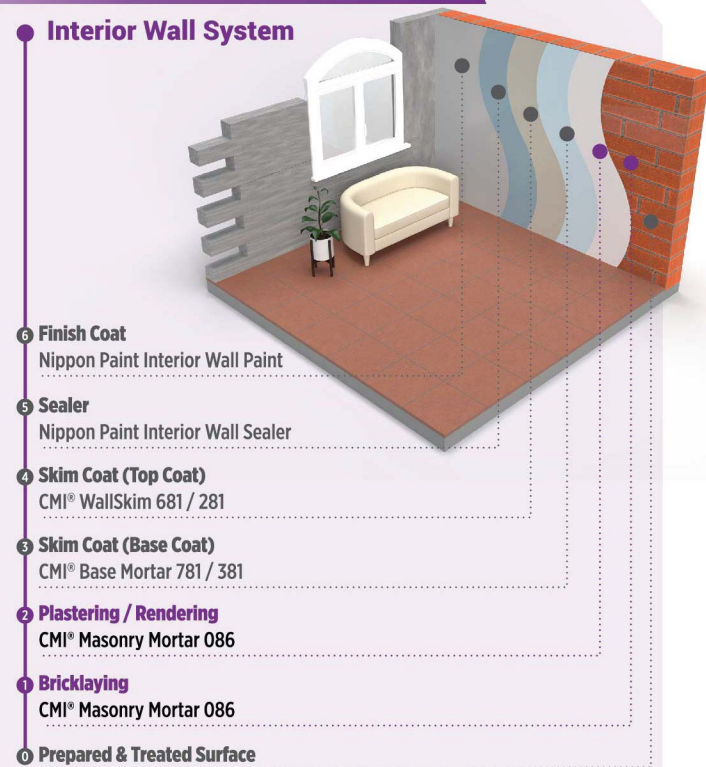
RC WALL - INTERNAL

PRIOR PLASTERING / RENDERING	PLASTERING / RENDERING	SKIM COAT (BASE COAT)		SKIM COAT (TOP COAT)		PAINTING (SEALER)	PAINTING (TOP COAT)
			OR				
CMI® PLASTER BONDING AGENT 370	CMI® RENDER 082	CMI® BASE MORTAR 381 WHITE		CMI® BASE MORTAR 781 GREY	CMI® WALLSKIM 281 WHITE		
						NIPPON PAINT INTERIOR WALL SEALER RANGE	NIPPON PAINT INTERIOR PAINT RANGE

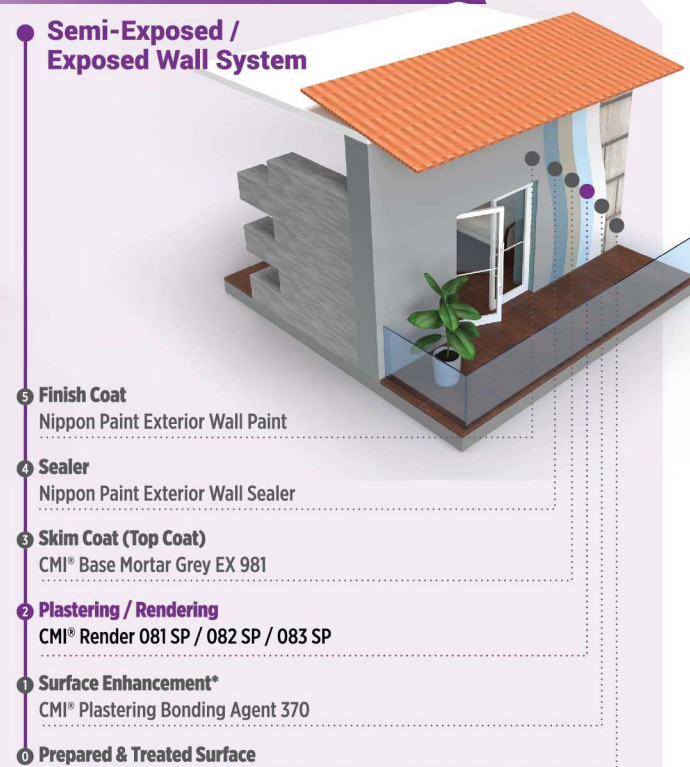
RENDER SYSTEM

BRICK WALL

Interior Wall System



BLOCK / CONCRETE WALL

Semi-Exposed /
Exposed Wall System

NOTE: *Optional

SELECTOR CHART



PRODUCT	CMI® RENDER 081 / RENDER 081 SP	CMI® RENDER 082 / RENDER 082 SP	CMI® RENDER 083 / RENDER 083 SP	CMI® MASONRY MORTAR 086
SUBSTRATE	AAC BLOCK / CONCRETE	AAC BLOCK / CONCRETE	AAC BLOCK / CONCRETE	BRICK
FINISHING	SEMI-SMOOTH TEXTURE	SEMI-COARSE TEXTURE	COARSE TEXTURE	COARSE TEXTURE
AGGREGATE SIZE	1mm	1.5mm	3mm	5mm
THICKNESS PER COAT				
3 - 6mm	★			
5 - 10mm		★		
10 - 20mm			★	

★ Most suitable



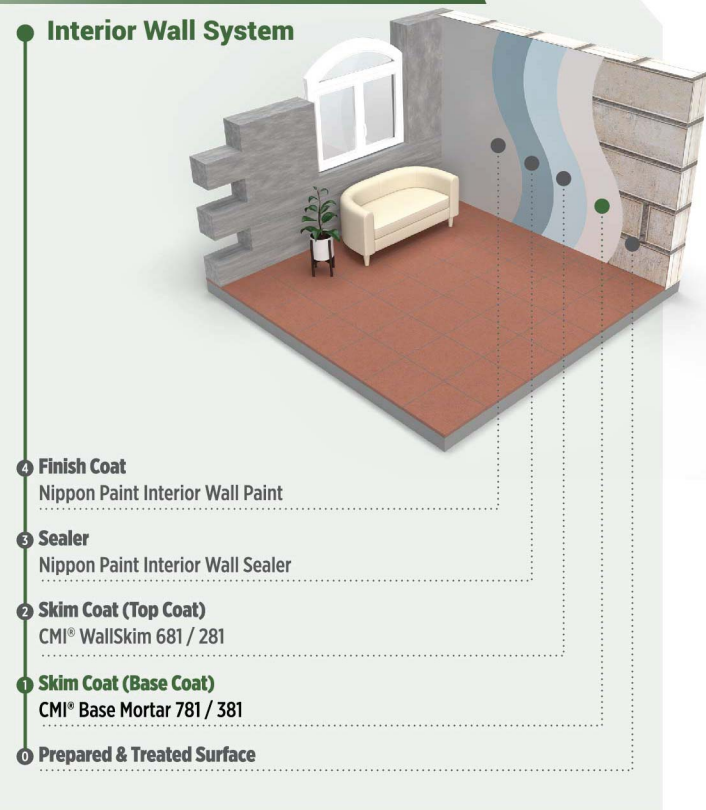
PRODUCT	CMI® RENDER 081 / CMI® RENDER 081 SP** High and premium* quality polymer modified cement-sand plaster (render) and use as a fine textured sponge finishing for external walls and ceiling to provide an aesthetically pleasant and level wall surface.	CMI® RENDER 082 / CMI® RENDER 082 SP** High and premium* quality polymer modified cement-sand plaster (render) and use as a fine textured sponge finishing for external walls and ceiling to provide an aesthetically pleasant and level wall surface.	CMI® RENDER 083 / CMI® RENDER 083 SP** High and premium* quality polymer modified cement-sand plaster (render) and use as a fine textured sponge finishing for external walls and ceiling to provide an aesthetically pleasant and level wall surface.	CMI® MASONRY MORTAR 086 A multipurpose pre-mixed mortar, that is designed specifically for bricklaying and plastering use. Beneficial for construction trend that embrace Industrialized Building System (IBS) as a method of attaining better construction quality and productivity.
SUBSTRATE	AAC Block / Concrete	AAC Block / Concrete	AAC Block / Concrete	Brick
COLOR	Grey	Grey	Grey	Grey
FINISHING	Semi-smooth Texture	Semi-coarse Texture	Coarse Texture	Coarse Texture
COMPRESSIVE STRENGTH	N/A	N/A	N/A	≥ 6 N/mm ²
BOND STRENGTH @28 DAYS	Render 081: ≥ 0.5 N/mm ² Render 081 SP: ≥ 0.75 N/mm ²	Render 082: ≥ 0.5 N/mm ² Render 082 SP: ≥ 0.75 N/mm ²	Render 083: ≥ 0.5 N/mm ² Render 083 SP: ≥ 0.75 N/mm ²	≥ 0.5 N/mm ²
POT LIFE @ 30°C	Approx. 1 hour	Approx. 1 hour	Approx. 1 hour	Approx. 1 hour
MAXIMUM AGGREGATE SIZE	1mm	1.5mm	3mm	5mm
RECOMMENDED THICKNESS	3 - 6mm per coat	5 - 10mm per coat	10 - 20mm per coat	10 - 15mm (Bricklaying) 20 - 25mm (Plastering)
MIXING RATIO	25kg : 4.0 - 4.5L clean water 40kg: 6.5 - 7.0L clean water	40kg: 6.5 - 7.0L clean water	40kg: 6.5 - 7.0L clean water	6.0 - 6.8L clean water / 40kg
PACK SIZE	Render 081: 25kg & 40kg Render 081 SP: 40kg	40kg	40kg	40kg
SINGAPORE GREEN LABEL	YES	YES	YES	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)	Render 081 	Render 081 SP 	Render 082 	Render 082 SP
	Render 083 	Render 083 SP 	Render 086 	

NOTE: **CMI® Render SP have a characteristic of better adhesion, flexural strength and abrasion resistance with improved water and weather resistance for exterior finishing application
*High quality polymer modified for Render, Premium quality polymer modified for Render SP

COATING SYSTEM

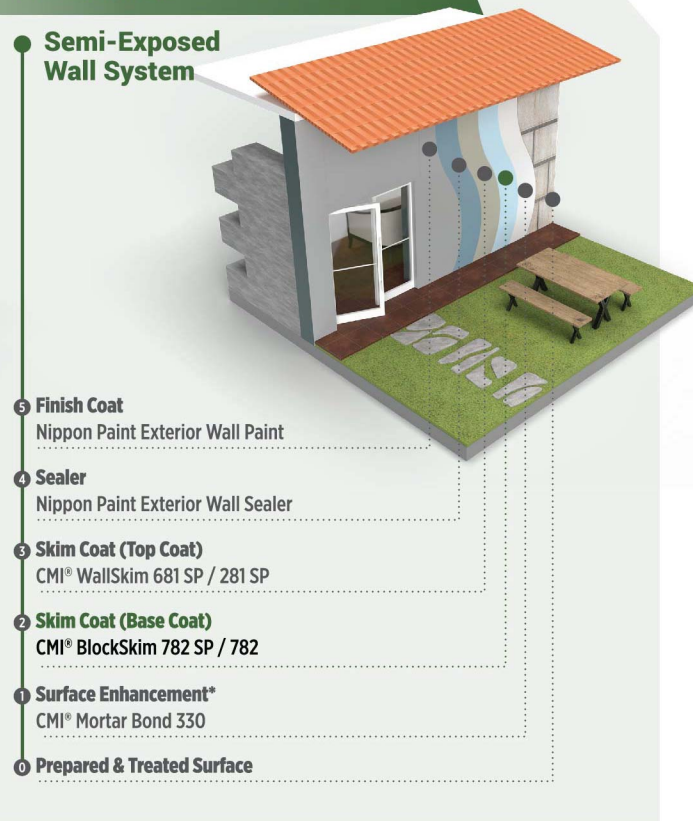
BLOCK / CONCRETE WALL

Interior Wall System



BLOCK WALL

Semi-Exposed Wall System



NOTE: *Optional

SELECTOR CHART



PRODUCT	CMI® BASE MORTAR 781 SP / 381 SP	CMI® BASE MORTAR 781 / 381	CMI® BLOCKSKIM 782 SP	CMI® BLOCKSKIM 782
SUBSTRATE	BRICK / AAC BLOCK / CONCRETE	BRICK / AAC BLOCK / CONCRETE	BLOCK	BLOCK
COATING LAYER	BASE COAT	BASE COAT	BASE COAT	BASE COAT
SINGAPORE GREEN LABEL	★	★		
AREA OF APPLICATION				
INTERIOR	★	★	★	★
EXTERIOR	★		★	
SEMI-EXPOSED AREA	★		★	

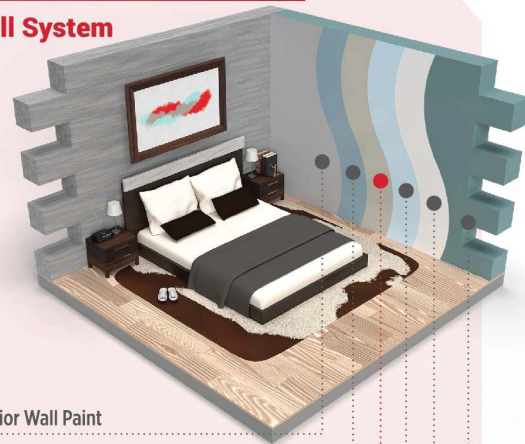
★ Most suitable

PRODUCT					
	CMI® BASE MORTAR 781 / CMI® BASE MORTAR 781 SP It is good for surface improvement works to block wall and concrete wall surfaces. CMI® Base Mortar 781 SP have a characteristic of better adhesion, flexural strength with improved water and weather resistance for exterior finishing application.			CMI® BASE MORTAR 381 / CMI® BASE MORTAR 381 SP It is good for surface improvement works to block wall and concrete wall surfaces. CMI® Base Mortar 381 SP have a characteristic of better adhesion, flexural strength with improved water and weather resistance for exterior finishing application.	CMI® BLOCKSKIM 782 / CMI® BLOCKSKIM 782 SP It is a coarser based skim coat, specially formulated for thicker build skim coating work onto hollow block wall, ALC block wall and coarse plastered wall.
SUBSTRATE	Brick / AAC Block / Concrete			Brick / AAC Block / Concrete	AAC Block
COLOR	Grey			White	Grey
FINISHING	Semi-smooth			Semi-smooth	Semi-smooth
WET DENSITY	1800 – 1900 kg/m ³			1800 – 1900 kg/m ³	1600 – 1700 kg/m ³
DRY DENSITY	1600 – 1700 kg/m ³			1600 – 1700 kg/m ³	1400 – 1500 kg/m ³
BOND STRENGTH @28 DAYS	Base Mortar 781: 0.5 N/mm ² Base Mortar 781 SP: 0.6 N/mm ²			Base Mortar 381: 0.5 N/mm ² Base Mortar 381 SP: 0.6 N/mm ²	BlockSkim 782: 0.5 N/mm ² BlockSkim 782 SP: 0.6 N/mm ²
POT LIFE @ 30°C	Approx. 2 hour			Approx. 2 hour	Approx. 2 hour
RECOMMENDED THICKNESS	2 – 3mm per coat			2 – 3mm per coat	3 – 6mm per coat
MIXING RATIO	Base Mortar 781 25kg : 5.7 - 6.5L clean water 40kg: 9.2 - 10.0L clean water Base Mortar 781 SP 25kg : 7.5 - 8.0L clean water 40kg : 12.0 - 12.5L clean water			Base Mortar 381 25kg : 5.7 - 6.5L clean water 40kg: 9.2 - 10.0L clean water Base Mortar 381 SP 25kg : 7.5 - 8.0L clean water 40kg : 12.0 - 12.5L clean water	10.0 – 10.5L clean water
PACK SIZE	25kg & 40kg			25kg & 40kg	40kg
SINGAPORE GREEN LABEL	YES			YES	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)	Base Mortar 781 Base Mortar 781 SP 			Base Mortar 381 Base Mortar 381 SP 	

COATING SYSTEM

CONCRETE WALL

Interior Wall System



- 5 **Finish Coat**
Nippon Paint Interior Wall Paint
- 4 **Sealer**
Nippon Paint Interior Wall Sealer
- 3 **Skim Coat (Top Coat)**
CMI® WallSkim 2781
- 2 **Plastering / Rendering***
CMI® Render 081 / 082 / 083 / 081SP / 082SP / 083SP
- 1 **Surface Enhancement***
CMI® Plastering Bonding Agent 370
- 0 **Prepared & Treated Surface**

BRICK WALL

Semi-Exposed Wall System



- 6 **Finish Coat**
Nippon Paint Interior Wall Paint
- 5 **Sealer**
Nippon Paint Interior Wall Sealer
- 4 **Skim Coat (Top Coat)**
CMI® WallSkim 681 SP / 281 SP
- 3 **Skim Coat (Base Coat)**
CMI® Base Mortar 781 SP / 381 SP / 781 / 381
- 2 **Plastering / Rendering**
CMI® Masonry Mortar 086
- 1 **Bricklaying**
CMI® Masonry Mortar 086
- 0 **Prepared & Treated Surface**

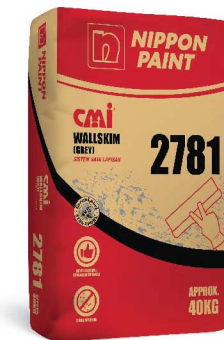
NOTE: *Optional







SELECTOR CHART



PRODUCT	CMI® WALLSKIM 681 SP / 281 SP	CMI® WALLSKIM 681 / 281	CMI® BASE MORTAR GREY EX 981	CMI® WALLSKIM 2781
SUBSTRATE	BRICK / AAC BLOCK / CONCRETE	BRICK / AAC BLOCK / CONCRETE	BRICK / AAC BLOCK / CONCRETE	CONCRETE
COATING LAYER	TOP COAT	TOP COAT	TOP COAT	TOP COAT
ANTI-EFFLORESCENCE			★	
SINGAPORE GREEN LABEL	★	★		
AREA OF APPLICATION				
INTERIOR	★	★	★	★
EXTERIOR	★		★	

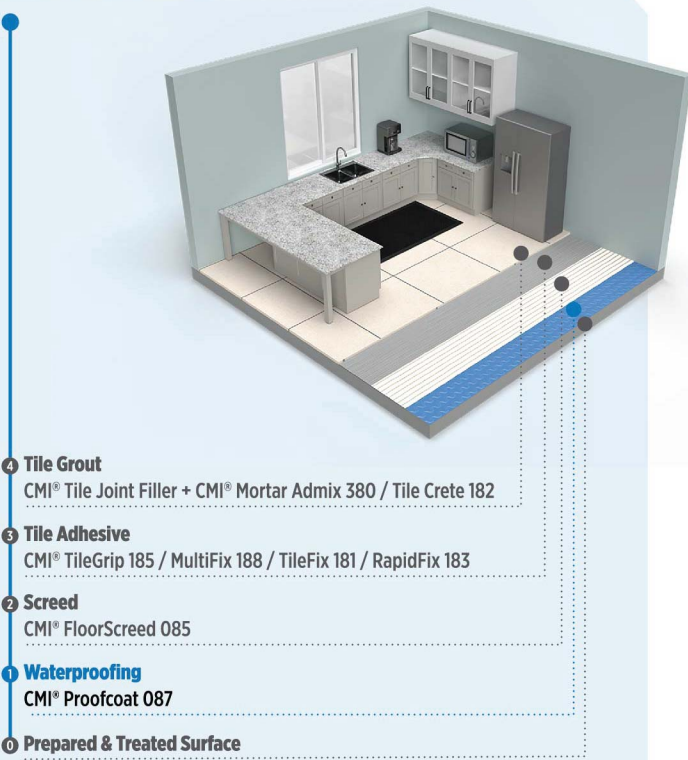
★ Most suitable



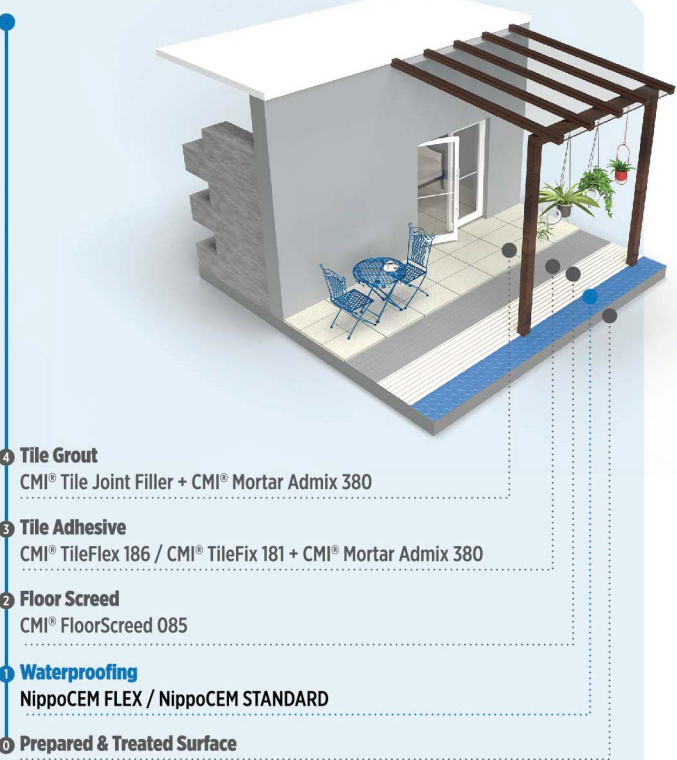
PRODUCT	CMI® WALLSKIM 681 / CMI® WALLSKIM 681 SP CMI® WallSkim can be used on CMI® Base Mortar, concrete and rendered surfaces to give a high quality smooth and non-powdery surface, suitable to receive painting or wallpaper.	CMI® WALLSKIM 281 / CMI® WALLSKIM 281 SP CMI® WallSkim can be used on CMI® Base Mortar, concrete and rendered surfaces to give a high quality smooth and non-powdery surface, suitable to receive painting or wallpaper.	CMI® BASE MORTAR GREY EX 981 A high-quality polymer-modified hydrophobic cement-based skim coat (top coat) that specially formulated with excellent weatherability and durability for building envelope long lasting beauty.	CMI® WALLSKIM 2781 A high-quality polymer modified water resistant cement-based skim coat (top coat) for finishing on concrete walls or ceilings.
SUBSTRATE	Brick / AAC Block / Concrete	Brick / AAC Block / Concrete	Brick / AAC Block / Concrete	Concrete
COLOR	Grey	White	Grey	Grey
FINISHING	Smooth	Smooth	Semi-smooth	Smooth
ADHESION STRENGTH @28 DAYS	WallSkim 681: 0.5 N/mm ² WallSkim 681 SP: 0.6 N/mm ²	WallSkim 281: 0.5 N/mm ² WallSkim 281 SP: 0.6 N/mm ²	≥ 0.8 N/mm ²	0.5 N/mm ²
POT LIFE @ 30°C	Approx. 2 hour	Approx. 2 hour	Approx. 2 hour	Approx. 2 hour
RECOMMENDED THICKNESS	1 – 2mm per coat	1 – 2mm per coat	3 – 5mm per coat	1 – 2mm per coat
MIXING RATIO	WallSkim 681 25kg : 8.5 - 10L clean water 40kg: 13.5 - 15.5L clean water WallSkim 681 SP 40kg : 17.0 - 18.0L clean water	WallSkim 281 25kg : 8.5 - 10L clean water 40kg: 13.5 - 15.5L clean water WallSkim 281 SP 25kg : 10.5 - 11.0L clean water	7.0 – 7.5L clean water	16.5 - 17.0L clean water
PACK SIZE	25kg & 40kg	25kg	25kg	40kg
SINGAPORE GREEN LABEL	YES	YES	YES	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)	WallSkim 681  WallSkim 681 SP 	WallSkim 281  WallSkim 281 SP 		

COATING SYSTEM




INTERIOR AREA



SEMI-EXPOSED / EXTERIOR AREA



SELECTOR CHART

PRODUCT	 NippoCEM FLEX	 NippoCEM STANDARD	 CMI® PROOFCOAT 087
SUBSTRATE	CONCRETE	CONCRETE	CONCRETE / SLAB / PLASTERED WALL
COLOR	GREY	GREY	GREY
SINGAPORE GREEN LABEL	★	★	
AREA OF APPLICATION			
WET AREA	★	★	★
WATER RETAINING	★	★	★
CONCEAL	★	★	★

★ Most suitable

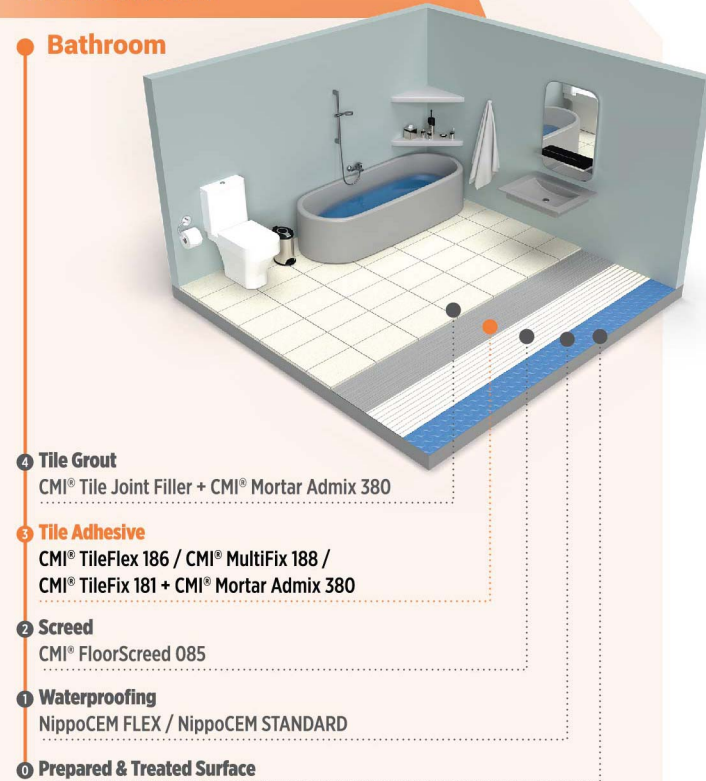
PRODUCT	NippoCEM FLEX Two component, flexible, green label and SPAN certified, acrylic polymer modified cementitious waterproofing coatings. It also acts as anti-carbonation and anti-chloride ion diffusion protection coatings to structure.	NippoCEM STANDARD Two component, green label and SPAN certified acrylic polymer modified cementitious waterproof slurry. It seals pores and voids of all masonry and concrete to prevent water ingress.	CMI® PROOFCOAT 087 Semi-flexible 2-part acrylic modified cementitious waterproofing system. The 2 components react chemically to form a hard and elastic film which bond tenaciously to most concrete or masonry substrate to protect against possible ingress of water.
SUBSTRATE	Concrete	Concrete	Concrete / Slab / Plastered Wall
COLOR	Grey	Grey	Grey
THEORETICAL COVERAGE	1.0 kg/m ² /coat	1.0 kg/m ² /coat	1.5 kg/m ² /coat
POT LIFE @ 30°C	1 hour	30 minutes	1 hour
ADHESION TO CONCRETE (ASTM D4541)	> 1.5 N/mm ²	> 1.0 N/mm ²	> 1.0 N/mm ²
POSITIVE WATER PRESSURE RESISTANCE (DIN 1048)	5 bar	5 bar	5 bar
PORTABLE WATER COMPLIANCE (BS 6920 / MS 1583-1)	Compliance	Compliance	Compliance
PACK SIZE	Part A: 10kg / pail Part B: 25kg / bag	Part A: 5kg / pail Part B: 20kg / bag	Part A: 9L Part B: 20kg
SINGAPORE GREEN LABEL	YES	YES	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)			

COATING SYSTEM

SELECTOR CHART

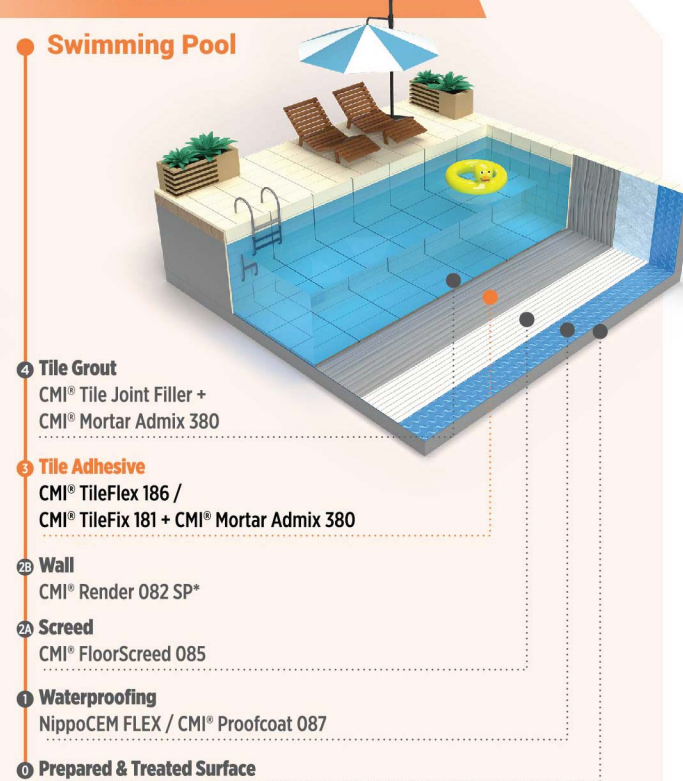
INTERIOR AREA

Bathroom



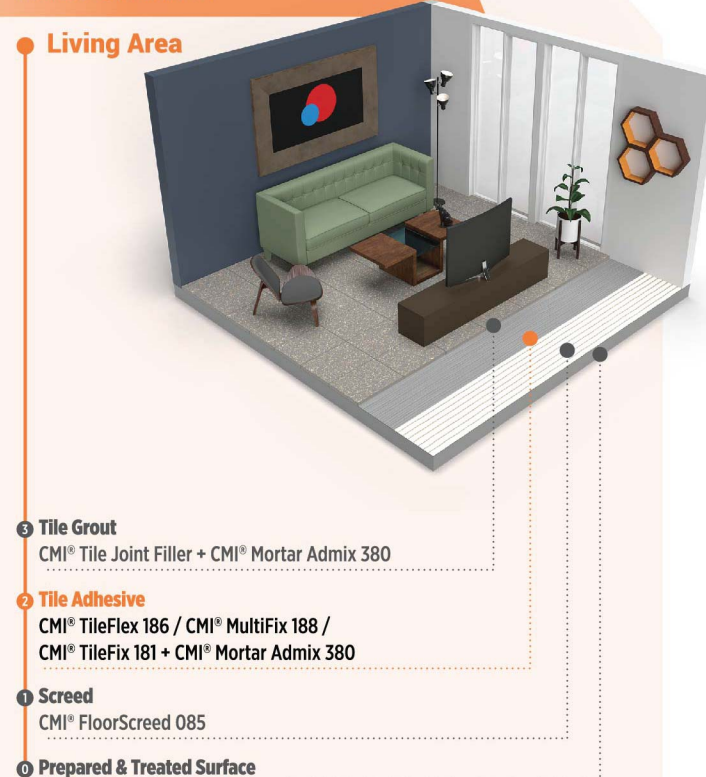
EXTERIOR AREA

Swimming Pool



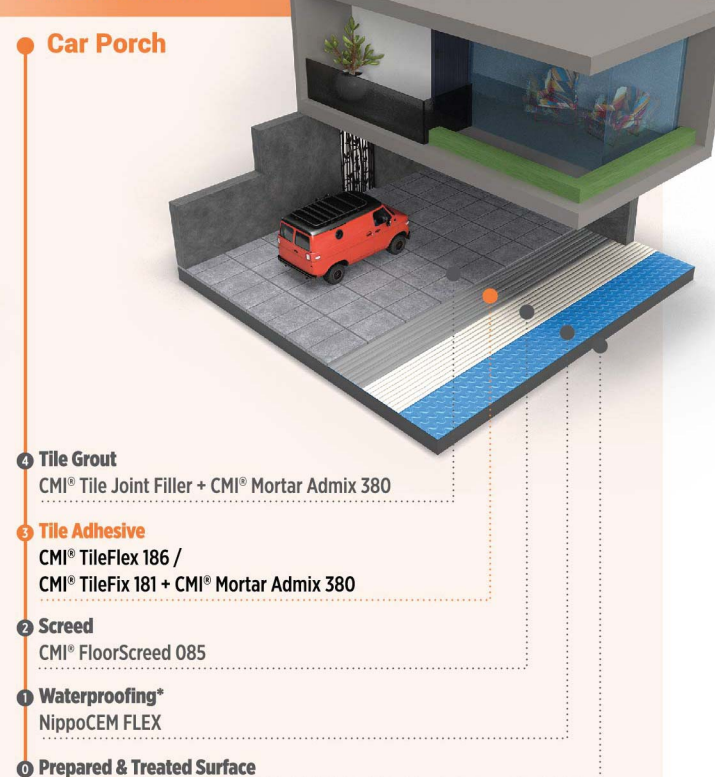
INTERIOR AREA

Living Area



EXTERIOR AREA

Car Porch



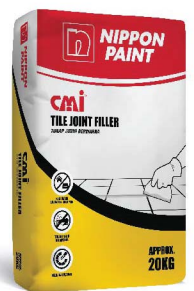
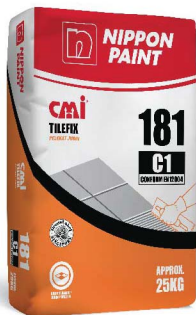
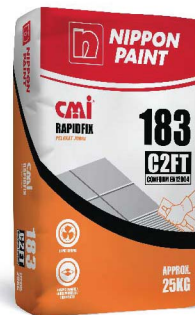
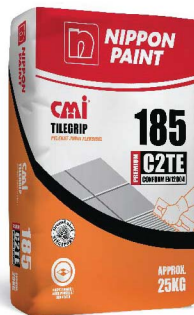
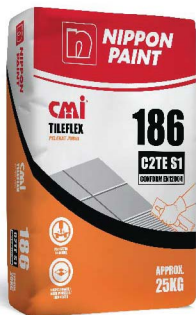
NOTE: *1:1 dilution with clean water.

PRODUCT	CMI® TILEFLEX 186	CMI® TILEGRIP 185	CMI® MULTIFIX 188	CMI® RAPIDFIX 183	CMI® TILEFIX 181	CMI® TILEBOND 180	CMI® TILE JOINT FILLER	CMI® TILECRETE 182
GRADE (According to EN12004)	C2TES1	C2TE (PREMIUM)	C2TE	C2FT	C1	N/A	N/A	N/A
APPEARANCE	GREY	GREY & WHITE	GREY & WHITE	GREY	GREY & WHITE	GREY	VARIOUS COLORS	GREY & WHITE
AREA OF APPLICATION								
DRY	★	★	★	★	★	★	●	●
WET	★	●			●	●	●	●
SWIMMING POOL	★				●		●	●
RECOMMENDED TILE SIZE								
SMALL (≤ 1' x 1')	★	★	★	★	★	★	★	★
MEDIUM (≤ 1' x 2')	★	★	★	★	●	●	★	★
LARGE (≤ 2' x 2')	★	★	★	★	●	●	★	★
VERY LARGE (> 2' x 2')	★				●	●	★	★
TILE TYPE								
HOMOGENOUS / PORCELAIN	★	★	★	★			★	★
CERAMIC	★	★	★	★	★	★	★	★
GLASS MOSAIC	★	★	★	★			★	★
MARBLE	★	★	★	★			★	★
GRANITE	★	★		★			★	★

TILE ADHESIVE CLASSES according to ISO 13007-1 and UNI EN 12004 Standards		CEMENTITIOUS	REQUIREMENT
FUNDAMENTAL CLASSES	NORMAL ADHESIVES	C1	> 0.5N/mm² Adhesion Strength
	IMPROVED ADHESIVES	C2	> 1.0N/mm² Adhesion Strength
OPTIONAL CLASSES	FAST SETTING ADHESIVES	F	> 0.5N/mm² Adhesion Strength @ 6 Hours
	SLIP RESISTANT ADHESIVES	T	< 0.5N/mm² Vertical Slip
	EXTENDED OPEN TIME	E	> 30min
DEFORMABILITY CLASSES	DEFORMABLE ADHESIVES	S1	2.5 - 5.0mm
	HIGHLY DEFORMABLE ADHESIVES	S2	> 5.0mm

★ Most suitable





● Recommended to mix with CMI® Mortar Admix 380 for porcelain tiles / stones







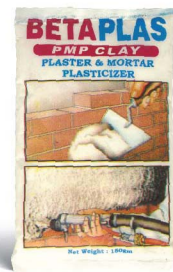
PRODUCT				
	CMI® TILEFLEX 186 A premium grade, single component polymer modified deformable cement-based tile adhesive for tiling of large format fully vitrified tiles, marble and granite. It is ready to use by just adding water for internal and external tiling. Can be use on area subjected to traffic.	CMI® TILEGRIP 185 An environmentally friendly, premium polymer-modified flexible cement-based tile adhesive for fixing ceramic glazed tiles, homogenous vitrified tiles and stones for both floors and walls for internal and external applications. Application thickness up to 20mm.	CMI® MULTIFIX 188 An environmentally friendly polymer modified water-resistant cement-based tile adhesive for fixing ceramic glazed tiles, homogenous vitrified tiles and stones for both floors and walls for internal and external applications. It is certified with Singapore Green Label by Singapore Environment Council.	CMI® RAPIDFIX 183 A single component rapid setting tile adhesive for thick and thin bed installation of tiles for locations where tiled area needs to be put into service as quickly as possible.
GRADE <small>(Accordance to EN12004)</small>	C2TES1	C2TE (PREMIUM)	C2TE	C2FT
BOND STRENGTH @28 DAYS	N/A	N/A	≥ 1.0 N/mm ²	N/A
WET DENSITY	1550 - 1600 kg/mm ²	1400 - 1500 kg/mm ²	1400 - 1500 kg/mm ²	1400 - 1500 kg/mm ²
DRY DENSITY	1450 - 1500 kg/mm ²	1250 - 1300 kg/mm ²	1250 - 1300 kg/mm ²	1250 - 1300 kg/mm ²
POT LIFE @ 30°C	Approx. 1 - 1.5 hours	Approx. 1 - 1.5 hours	Approx. 1 - 1.5 hours	Approx. 30 - 45 minutes
MIXING RATIO	6.0 - 6.5L clean water <i>*Do not add cement into the mixture</i>	6.0 - 6.5L clean water <i>*Do not add cement into the mixture</i>	6.0 - 6.5L clean water <i>*Do not add cement into the mixture</i>	6.25 - 6.75L clean water <i>*Do not add cement into the mixture</i>
PACK SIZE	25kg	25kg	25kg	25kg
SINGAPORE GREEN LABEL	N/A	YES	YES	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)				




PRODUCT				
	CMI® TILEFIX 181 Water-resistant cement-based tile adhesive for fixing ceramic glazed tiles for both floors and walls for internal applications. It can be upgraded to high adhesion performance flexible cement-based tile adhesive when mixed with CMI® Mortar Admix 380, and be used for very large format tiles and exterior areas.	CMI® TILEBOND 180 Water-resistant cement-based tile adhesive for fixing ceramic glazed tiles for both floors and walls for internal applications.	CMI® TILE JOINT FILLER A water-resistant polymer modified cement-based fine (unsanded) grout for pointing of tile joint for both floors and walls at internal and external area. It is suitable for grouting joints up to 3mm wide only and is available in various colour.	CMI® TILECRETE 182 An economical water-resistant polymer modified cement-based fine (unsanded) grout for pointing of tile joint for both floors and walls at internal and external area. It is suitable for grouting joints up to 3 mm wide only and is available in only grey and white colors. It requires mixing with clean water only. However, it can also be used with CMI® Latex Admix 380, a liquid emulsion polymer to enhance its physical properties.
GRADE <small>(Accordance to EN12004)</small>	C1	N/A	N/A	N/A
BOND STRENGTH @28 DAYS	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	N/A
WET DENSITY	1400 - 1500 kg/mm ²	1400 - 1500 kg/mm ²	1600 - 1700 kg/mm ²	1600 - 1700 kg/mm ²
DRY DENSITY	1250 - 1300 kg/mm ²	1250 - 1300 kg/mm ²	1250 - 1300 kg/mm ²	1250 - 1300 kg/mm ²
POT LIFE @ 30°C	Approx. 1 - 1.5 hours	Approx. 1 - 1.5 hours	Approx. 1 hour	Approx. 1 hour
MIXING RATIO	SINGLE-COMPONENT (1K) 6.0 - 6.5L clean water TWO-COMPONENT (2K) 6.5 - 7.0L clean water <i>(Mix CMI® TileFix 181 with CMI® Mortar Admix 380)</i> <i>*Do not add cement into the mixture</i>	SINGLE-COMPONENT (1K) 6.0 - 6.5L clean water TWO-COMPONENT (2K) 6.5 - 7.0L clean water <i>(Mix CMI® Tile Bond 180 with CMI® Mortar Admix 380)</i> <i>*Do not add cement into the mixture</i>	7.5 - 8.0L clean water <i>*CMI® Latex Admix 380 with 1:1 dilution with clean water.</i>	10.5 - 11.0L clean water <i>*Mix CMI® Tilecrete 182 with CMI® Mortar Admix 380 with 1:1 dilution with clean water</i>
PACK SIZE	25kg	25kg	20kg	25kg
SINGAPORE GREEN LABEL	YES	N/A	N/A	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)				






PRODUCT	CMI® FLOORSCREED 085 A specially blended premixed floor screed comprising of Ordinary Portland Cement, graded sand and chemical additives to meet stringent requirements. It is easy to apply and useful for levelling rough and uneven floors.	CMI® NON-SHRINK GROUT 222 A general purpose, non-shrink cementitious grout composed of high strength cement, graded aggregates and special additives with an expansive agent.	CMI® NS FIBREPATCH 228 It is reinforced with synthetic fiber and had controlled shrinkage that make it suitable for patching and resurfacing of concrete substrates up to 35 mm thickness including overhead surfaces in repair, fixing and general construction works.	CMI® G25 CONCRETE MIX Ready to use, blend of proportioned aggregates, sand and Portland cement. It is particularly suited for small concrete jobs, garden edging, slabs, footings, securing gates or posts.
COLOR	Grey	Grey	Grey	Grey
FLEXURAL STRENGTH	≥ 2.0 N/mm ² (ASTM C348 : 2008)	Flowable 1 day : N/A 7 days : ~ 5.0 - 6.0 N/mm ² 28 days : ~ 7.0 - 8.0 N/mm ² Pourable 1 day : N/A 7 days : ~ 6.0 - 7.0 N/mm ² 28 days : ~ 8.0 - 9.0 N/mm ²	1 day : ≥ 5 MPa 7 days : ≥ 6 MPa 28 days : ≥ 8 MPa	N/A
COMPRESSIVE STRENGTH	20 to 30 N/mm ² (ASTM C109 : 2008)	Flowable 1 day : ~ 20 - 25 N/mm ² 7 days : ~ 45 - 50 N/mm ² 28 days : ~ 60 - 65 N/mm ² Pourable 1 day : ~ 25 - 30 N/mm ² 7 days : ~ 50 - 55 N/mm ² 28 days : ~ 65 - 70 N/mm ²	1 day : ≥ 20 MPa 7 days : ≥ 30 MPa 28 days : ≥ 45 MPa	1 day : N/A 7 days : 20 - 30 MPa 28 days : 35 - 40 MPa
POT LIFE @ 30°C	Approx. 40 minutes	N/A	90 minutes	30 minutes
MAXIMUM AGGREGATE SIZE	5mm	N/A	2.0 mm	N/A
RECOMMENDED THICKNESS	15 - 50mm per coat	N/A	Maximum thickness 35 mm	N/A
MIXING RATIO	6.5 - 7.0L clean water	Flowable : 4.0 - 4.4L clean water Pourable : 3.6 - 4.0L clean water	4.5 - 5.0L clean water	2.0L clean water
PACK SIZE	40kg	25kg	25kg	25kg
SINGAPORE GREEN LABEL	YES	N/A	N/A	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)				

PRODUCT	CMI® MORTAR BOND 330 A ready to use, multipurpose latex emulsion polymer specially designed for use in a variety of building applications whether internally or externally.	CMI® LATEX ADMIX 350 A ready to use, water-based emulsion polymer specially formulated for use with CMI's range of cement-based tile adhesive and cements and screed or render.	CMI® PLASTER BONDING AGENT 370 A specifically formulated latex emulsion for bonding of cement-based plaster onto smooth concrete surface. It is blended with quartz sand to improve adhesion onto the substrate.	CMI® MORTAR ADMIX 380 Ready to use, multipurpose latex emulsion polymer specially designed for use with cement sand mortar and cement-based coloured grouts to improve the physical and chemical properties of the mortar.
COLOR	Milky White	Milky White	Bluish Liquid	Milky White
SUBSTRATE	Concrete / AAC Block / Cement Render / Tiles	Concrete / AAC Block / Cement Render / Tiles	Concrete / AAC Block / Cement Render / Tiles	Concrete / AAC Block / Cement Render / Tiles
VISCOSITY	150 - 200 mPa.s.	200 - 300 mPa.s	N/A	250 - 350 mPa.s
pH	9 to 10	9 to 10	9 to 10	9 to 10
DRYING TIME	N/A	N/A	Approx. 2 hours	N/A
POT LIFE @ 30°C	<ul style="list-style-type: none"> Extensive range of applications Excellent adhesion & shear bond strength Excellent flexibility to absorb vibration of substrate & reduce shrinkage Excellent water & impact resistance Good corrosion resistance to steel surface 	<ul style="list-style-type: none"> Improve adhesion & shear bond strength of renders / screeds Increased bonding strength & flexibility of cement-based tile adhesive performance 	<ul style="list-style-type: none"> Improve surface condition of concrete surface Promote excellent adhesion on critical receiving surface i.e., smooth concrete surface, cement board, etc Significantly reduce hollowness challenges on smooth receiving surface 	<ul style="list-style-type: none"> High adhesion & shear bond strength to renders / screeds High bonding strength & flexibility of cement-based tile adhesive performance High water & impact resistance Reduce staining & efflorescence
PACK SIZE	4L & 20L	4L & 20L	5L & 20L	4L & 20L
SINGAPORE GREEN LABEL	N/A	N/A	N/A	YES
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)				



PRODUCT	CMI® BETAPLAS PMP CEMENT Plasticizing powder additives added into plaster and mortar mixes to increase its workability and adhesion strength and at the same time minimizes shrinkage and cracks.	CMI® BETAPLAS PMP CLAY Plasticizing powder additives added into plaster and mortar mixes to increase its workability and adhesion strength and at the same time minimizes shrinkage and cracks.	CMI® TILESTICK 338 A new generation multipurpose bonding agent specifically formulated to enhance the adhesion between the tiles back and cement-based tile adhesive / cement sand mortar.
COLOR	Off-White	Off-White	Milky White Liquid
SUBSTRATE	Plastering Mortar / Screeding Mortar / Masonry Mortar	Plastering Mortar / Screeding Mortar / Masonry Mortar	Concrete / Block / Render / Tile-Back
ADDITIVES	Water-soluble polymeric fibres for improve workability and strength	Water-soluble polymeric fibres for improve workability and strength	N/A
POT LIFE @ 30°C	Approx. 1 hour after addition	Approx. 1 hour after addition	N/A
MAXIMUM AGGREGATE SIZE	Max 0.5mm	Max 0.5mm	N/A
USES	<ul style="list-style-type: none"> Additives for repair mortar Additives for rendering and screeding Additives for masonry mortar Suitable for use in interior and exterior 	<ul style="list-style-type: none"> Additives for repair mortar Additives for rendering and screeding Additives for masonry mortar 	<ul style="list-style-type: none"> Bonding of cementitious mortar / render / plaster to concrete shear walls Bonding of cement-based tile adhesive / cement sand mortar to both tiles back and substrates As primer for tiles onto existing tiles, timber, metal sheets, and window coping
PACK SIZE	100gm / sachet 100 sachet / carton	100gm / sachet 100 sachet / carton	5L & 20L
MIXING	100gm sachet: 50kg OPC : 150 – 200kg washed sand	150gm sachet: 50kg OPC: 150 – 200kg washed sand	N/A
SINGAPORE GREEN LABEL	N/A	N/A	N/A
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)			

PRODUCT	NippoSEAL FLEX 200 FIBRE PRO A single-component water-based liquid-applied elastomeric waterproofing coating. It is specially formulated with acrylic copolymer integrated with micro-fibre reinforcement to form breathable, seamless and UV-durable waterproofing membrane. It resists ageing against heat, UV, sunlight, rain and wind.	NippoSEAL FLEX 200 An elastomeric, breathable, acrylic copolymer liquid applied waterproofing membrane. It is UV-durable, protective, waterproof, and decorative membrane, resistant to sun, rain, wind, or frost. Its micro-structure keeps water out but allows water vapour to escape through it.	NippoSEAL FLEX 100 A single component, water base liquid applied emulsified bitumen modified with copolymer of polyurethane, MMA and Neoprene. It exhibits better curing, elongation and cold flexibility with high recovery property.
COLOR	White, Window Grey	White, Window Grey	Black when dry
SUBSTRATE	Concrete	Concrete	Concrete
FINISHING	Matt	Matt	Black color, low sheen
DRYNG TIME	Minimum 2 - 3 hours	Minimum 2 - 3 hours	Touch Dry: 4 - 6 hours Hard Dry: ≤ 24 hours
USES	<ul style="list-style-type: none"> RC roof, car porch roof, open roof terrace Balconies, A/C ledge, Overhangs, and etc RC Walls Fiber cement board Asphalt/Bitumen Metal surfaces such as iron, steel, galvanized with the recommended primer to promote adhesion 	<ul style="list-style-type: none"> RC roof, car porch roof, open roof terrace Balconies, A/C ledge, Overhangs, and etc RC Walls Fiber cement board Asphalt/Bitumen Metal surfaces such as iron, steel, galvanized with the recommended primer to promote adhesion 	<ul style="list-style-type: none"> Structural walls, foundation walls, retaining walls Foundation slabs, tie beams, footings, copings, ramps, lift pits and etc RC flat roof (conceal and inverted roof) Planter box As a waterproofing membrane for sandwich construction
MIXING RATIO	N/A	No further dilution is required	N/A
PACK SIZE	5kg & 20kg	20kg	20kg
SINGAPORE GREEN LABEL	YES	YES	YES
SCAN / TAP FOR TECHNICAL DATA SHEET (TDS)			

PROJECT REFERENCE



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1. Penang International Commercial Centre (PICC), Penang
2. LakeVille Residence, Kuala Lumpur
3. Duta Park Residence, Kuala Lumpur
4. The Arcuz, Kelana Jaya



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5. Nidoz Residences, Kuala Lumpur
6. Lake Edge, Puchong
7. Oxley Tower KLCC, Kuala Lumpur
8. Sunway Belfield Residence, Kuala Lumpur

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