

ARDEX *ENDURA*



SYSTEMARDEX
PREMIUM PERFORMANCE



WATERPROOFING AND TILING CATALOGUE

www.ardexendura.com

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ABOUT US

INTRODUCTION

ARDEX GROUP

For nearly 70 years, ARDEX has been the quality leader for an entire industry, offering excellent building chemicals with supreme processing reliability – the brand of choice for installers and wholesalers.

Strong internal growth and intelligent acquisitions in foreign markets today put the ARDEX Group on the map with 49 subsidiaries in over 50 countries on all continents, with one unique theme around the world; ARDEX ensures our valued customers receive the same high quality products and services.



 Germany (HQ)	 Czech Republic	 Hungary	 Norway	 Switzerland
 Australia	 Denmark	 India	 Poland	 Taiwan
 Austria	 Finland	 Ireland	 Romania	 Turkey
 Belgium	 France	 Italy	 Singapore	 United Arab Emirates
 Bulgaria	 Great Britain	 Netherlands	 Sweden	 USA
 China	 Hong Kong	 New Zealand	 Spain	

ARDEX VISION

It is the vision of the ARDEX Group to be one of the world's leading solution providers of high-performance specialty building materials.



PERFORMANCE

- ARDEX is a system solution provider of high-performance specialty building materials.
- In close cooperation with our partners, we commit ourselves to gold standard business practices to ensure mutual success and profitable growth.
- We will be the premium supplier in each of our selected segments.
- We strive for market leadership in defined markets worldwide.



FAMILY-OWNED BUSINESS

- As a family-owned company, we encourage the development of team spirit and identification with the culture of the business.
- Building on the platform for growth established over many years, we look forward with confidence to a successful future.
- We are proud of our history.



CORPORATE CULTURE

- The guiding principle of ARDEX is "excellence in all that we do".
- ARDEX believes that all employees and partners should operate within a spirit of fairness, transparency and responsible business practices at all times.
- Employees are the foundation on which we build our business.
- Sustainable, long-term growth objectives underpin all of our various activities.



ARDEX ENDURA

BAL ENDURA ADHESIVES (INDIA) PVT LTD was re-branded as **ARDEX ENDURA (INDIA) PVT LTD** after the joint venture between ARDEX Group, Germany and Prism Johnson Limited, India. Both the partners hold 50% each of the Share Capital of the Company. ARDEX ENDURA (INDIA) PVT LTD has Technical Know-How agreements with ARDEX Group companies and the latest technology flows in from its Centers of Excellence. The Company's products like '**Silver Star**', '**Gold Star**', '**Diamond Star**', '**Platinum Star**', '**White Star**', etc., are well known in the Indian Construction Sector.

With the guidance and support from the ARDEX group, ARDEX ENDURA remains the quality leader for the industry, offering excellent building chemicals with supreme processing reliability. With 31 branches all over India and strategically positioned state-of-the-art manufacturing plants, ARDEX ENDURA products are manufactured under a quality system certified to ISO 9001, you can trust and rely on.

The comprehensive portfolio of products encompasses **Tiling & Stone Care products**, **Waterproofing systems**, **Industrial & Commercial flooring solutions**, **Concrete Repair** and **Decorative finishes**.



TILE & STONE
INSTALLATIONS



WATERPROOFING
SYSTEMS



FLOORING
SOLUTIONS



CONCRETE REPAIR,
ANCHORS & GROUTS



DECORATIVE
FINISHES

SYSTEMARDEX

ARDEX is committed to developing products that are easy to use and offer high performance. ARDEX products, systems and services are designed to ensure professional contractors the competitive advantage of a lower total cost of installation through superior performance.

ARDEX waterproofing and general construction products are designed to work together for total reliability and performance. Each product is the careful result of research and development combining the input of contractors, specifiers and installers to ensure absolute product compatibility.

A system of high quality, totally compatible products matched to unparalleled technical and field support.

We call this System ARDEX.



ARDEX ENDURA SUPPORT

ARDEX ENDURA products are backed by a team of Technical Support Specialists and Sales Professionals dedicated to one goal – eliminating guesswork, improving onsite efficiencies and helping their clients complete the projects successfully.

ARDEX ENDURA supports building professionals to complete successful projects by having:

- Trained applicators and contractors
- Project specific installation recommendations
- Job start-up and walk through support
- Local and national training
- Extensive digital resources

ARDEX ENDURA – COMMITTED TO THE LOCAL MARKET

- Localised Research and Development – Formulations designed in India for Indian conditions
- Five local manufacturing sites – Products made close to market
- Several distribution centres – Products available when you need them
- Local Technical Team – Support and backup wherever you are
- Customer service and sales support in every state
- Training centres across India



DIGITAL SERVICES



Website:

All the information you need in one place.

ardexendura.com



YouTube:

Access an extensive video library with helpful how-to videos.

youtube.com/c/ardexenduraindia



Facebook:

- Introduction of new products
- Access to video library
- And much more...

facebook.com/ArdexEnduraIndia



LinkedIn Group:

Industry news & updates from our team of experts

Search for us under
linkedin.com/groups/10308074



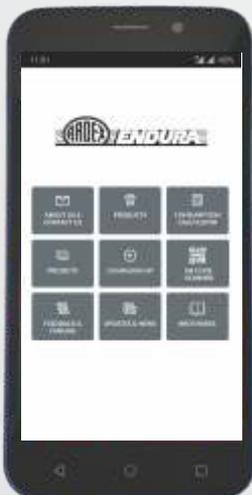
LinkedIn Company:

News & updates

Search for us under
linkedin.com/company/557712/

MOBILE APPLICATION

ARDEX ENDURA has newly introduced a mobile application and hosts a variety of helpful features in the palm of your hand. The mobile application consists of product information, marketing collaterals, news & updates and also features few redemption points for masons and dealers



Google Play Store

(search for "ARDEX ENDURA")



CONTINUOUS PROFESSIONAL DEVELOPMENT

The vision of ARDEXENDURAacademy is:
**“TO BE RECOGNISED AS THE LEADING TRAINING
BRAND WITHIN THE BUILDING MATERIAL INDUSTRY”**

ARDEXENDURAacademy
TRAINING EXCELLENCE

Our industry, like any other, requires on-going training to keep up with the changes in legislation/standards and materials. Our purpose-built training facility enables us to offer a range of demonstrations and seminars that can be tailored to your specific needs, ensuring total confidence in the specification and subsequent on-site application. The academy allows you to learn about new technologies including 'Industry best practices for Tiling, Waterproofing, Concrete Repair and Flooring' along with Technical guidance and product information

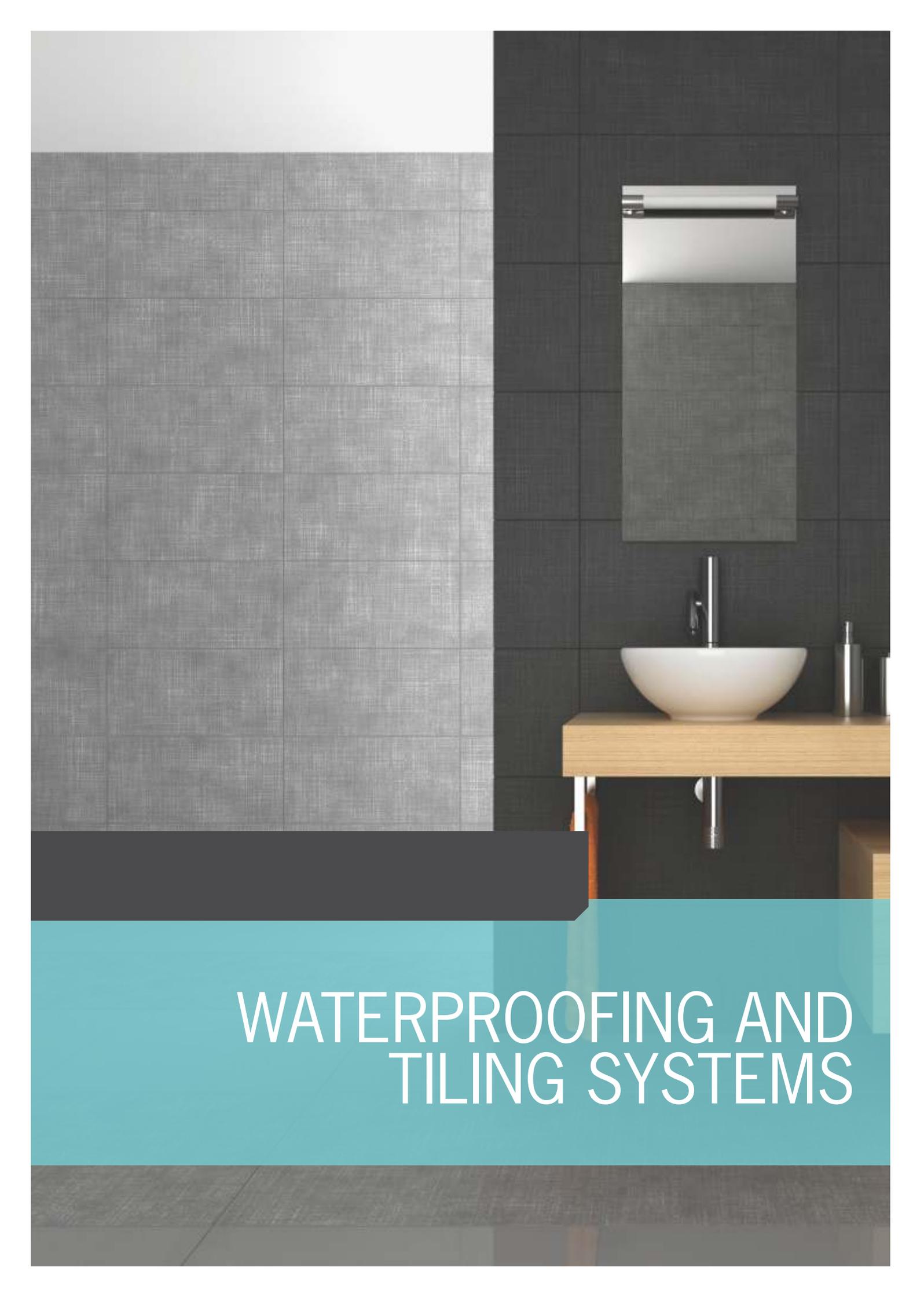
For the latest and most up to date information and advice, visit the ARDEXENDURAacademy centres across India (Bangalore, Mumbai, Ahmedabad, Delhi etc.)

For applicators committed to providing a high level of workmanship, ARDEX ENDURA helps them to increase both their professionalism and productivity.

Our training courses cover:

- Application fundamentals and the relevant industry standards
- Useful tips – simplifying the installation process
- New materials/trends and their implication
- Getting the most out of new product technologies





WATERPROOFING AND
TILING SYSTEMS

WATERPROOFING

"Waterproofing" is the process of making an object or structure waterproof or water-resistant so that it remains relatively unaffected by water or resisting the ingress of water under specified conditions. The key to the right waterproofing solution isn't going to be found in a single product, but a combination of waterproofing, drainage, and protection system that must work together.

Further, the system has to be designed to take into consideration the usage conditions, size and the construction materials used. Only by treating waterproofing as a system can a cost-effective solution be found.

By approaching waterproofing as a system, it's possible to identify the root cause of the problem, and the most cost-effective solution to it. This approach works equally well for new construction and remedial contracts.

TILING

Before starting stone or tiling works, it is important to select the correct bedding adhesive to ensure its performance. No one single formula adhesive can be used with all stones/tiles and substrates. The first step in choosing a tile adhesive is to consider the location of the installation e.g. whether the stones/tiles are to be installed inside or outside the building, to the wall or on the floor, in a wet or dry area, and the type of receiving substrate e.g. concrete, render, screed, drywall, etc.

More care should also be taken for moisture sensitive and light coloured natural stones. It would be better to choose white coloured bedding adhesives for light coloured natural stones to avoid back staining. Apart from selecting the appropriate bedding adhesive, the manufacturer's guidelines on using the material such as mixing ratio and open time should be strictly observed to obtain optimum performance. When in doubt, it is always advisable to consult the manufacturer for technical support on the product and its suitability for the intended use.

Polymer-modified cementitious adhesives

Polymer-modified adhesives are widely accepted in the industry and often referred to as thin-set mortars. The blended polymers interact with cement components to improve the physical and mechanical properties such as increased adhesion, reduced shrinkage and lower water absorption. In most cases it is suitable for wet or dry installations. The polymer additives add strength and flexibility to the mortar, without which the bedding can crack easily.

ADHESIVE CLASSIFICATION

The aim of the system is to provide a guideline for tile adhesive performance. The standard provides parameters for which tile adhesives are tested to, depending on their performance they can be granted specific classifications.

Firstly, tile adhesives are defined in three types, these are:

- C** – Cementitious adhesive
- D** – Dispersion adhesive
- R** – Reaction adhesive

Each type of adhesive can potentially have additional characteristics, which fall under the following classes:

- 1** – Normal adhesive (standard strength tile adhesive)
- 2** – Improved adhesive (stronger tile adhesive)
- F** – Fast setting/drying adhesive (with minimum tensile strength of 0.5mPa within 6 hours)
- T** – Slip resistant adhesive (with minimum tensile strength of 0.5mPa within 6 hours)
- E** – Adhesive with extended open time (once spread, the adhesive can be left without a tile being fixed for a longer time)
- S** – Special deformable characteristic, for cementitious adhesives only
(degree of flexibility of the adhesive, either S1 – flexible or S2 – highly flexible)

Each adhesive can therefore be classified under one of the following designations in the table:

Adhesive Type	Class/ Characteristics	Description
C1		Normal cementitious adhesive
C1	F	Fast setting cementitious adhesive
C1	T	Normal cementitious adhesive with slip resistance
C1	FT	Fast setting cementitious adhesive with slip resistance
C2		Cementitious adhesive with improved characteristics
C2	E	Cementitious adhesive with improved characteristics and extended open time
C2	F	Fast setting cementitious adhesive with improved characteristics
C2	T	Cementitious adhesive with improved characteristics and slip resistance
C2	TE	Cementitious adhesive with improved characteristics, slip resistance and extended open time
C2	FT	Fast setting cementitious adhesive with improved characteristics and slip resistance
D1		Normal dispersion adhesive
D1	T	Normal dispersion adhesive with slip resistance
D2		Dispersion adhesive with improved characteristics
D2		Fast drying dispersion adhesive with improved characteristics
D2	T	Dispersion adhesive with improved characteristics and slip resistance
D2	TE	Dispersion adhesive with improved characteristics, slip resistance and extended open time
R1		Normal reaction resin adhesive
R1	T	Normal reaction resin adhesive with slip resistance
R2		Reaction resin adhesive with improved characteristics
R2	T	Reaction resin adhesive with improved characteristics and slip resistance

Note: Additional designations may be inserted according to the combination of the different symbols

BASEMENT

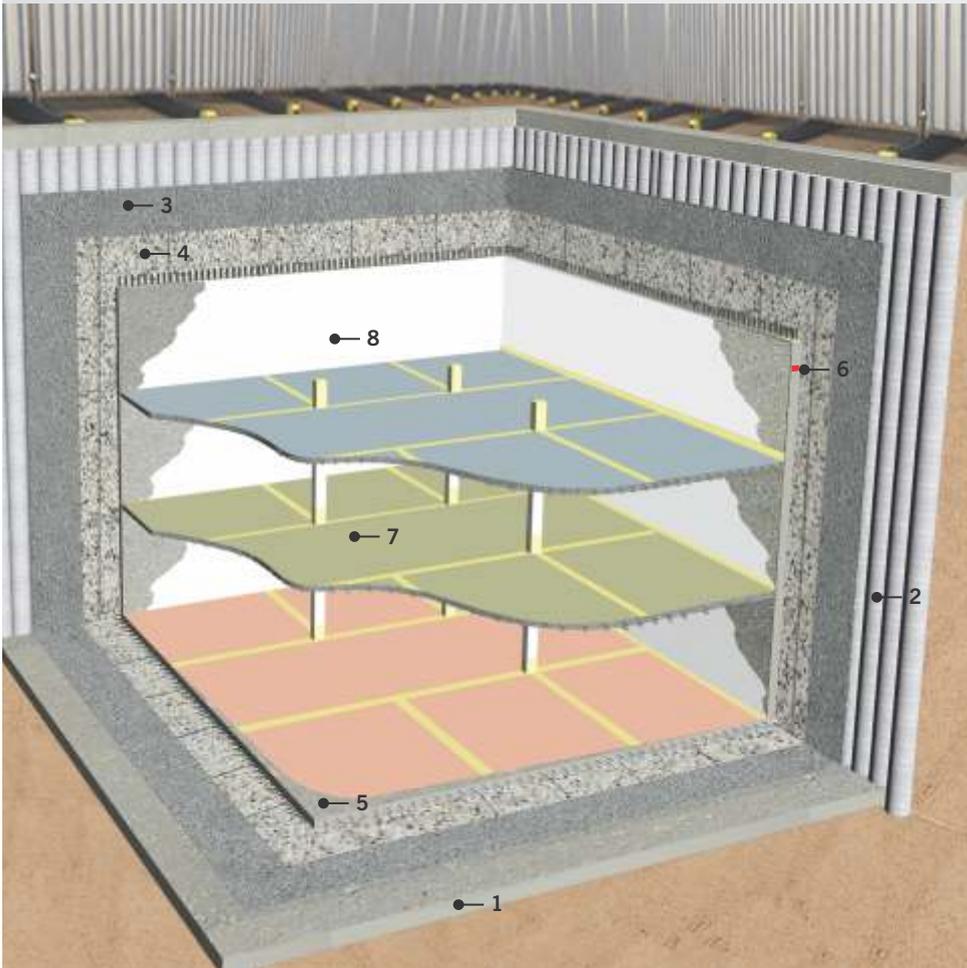
Basements, either 'shallow' (one floor) or 'deep' (more floors), of a building are either completely or partially below the ground floor. While selecting any waterproofing material for a basement, one has to check the major functional properties required such as hydrostatic pressure head to resist, presence of aggressive chemicals if any, and service life of the waterproofing system. The thickness of the coating/membrane and other properties need to be selected based upon the required performances of the waterproofing systems

The selection of the appropriate waterproofing method, the project specific design of the waterproofing system and its correct installation are key elements in minimizing the 'Total Cost of Ownership'. The selection of a high quality waterproofing solution can easily save in future repair and maintenance costs over the service life of the structure.



BASEMENT WATERPROOFING SYSTEMS

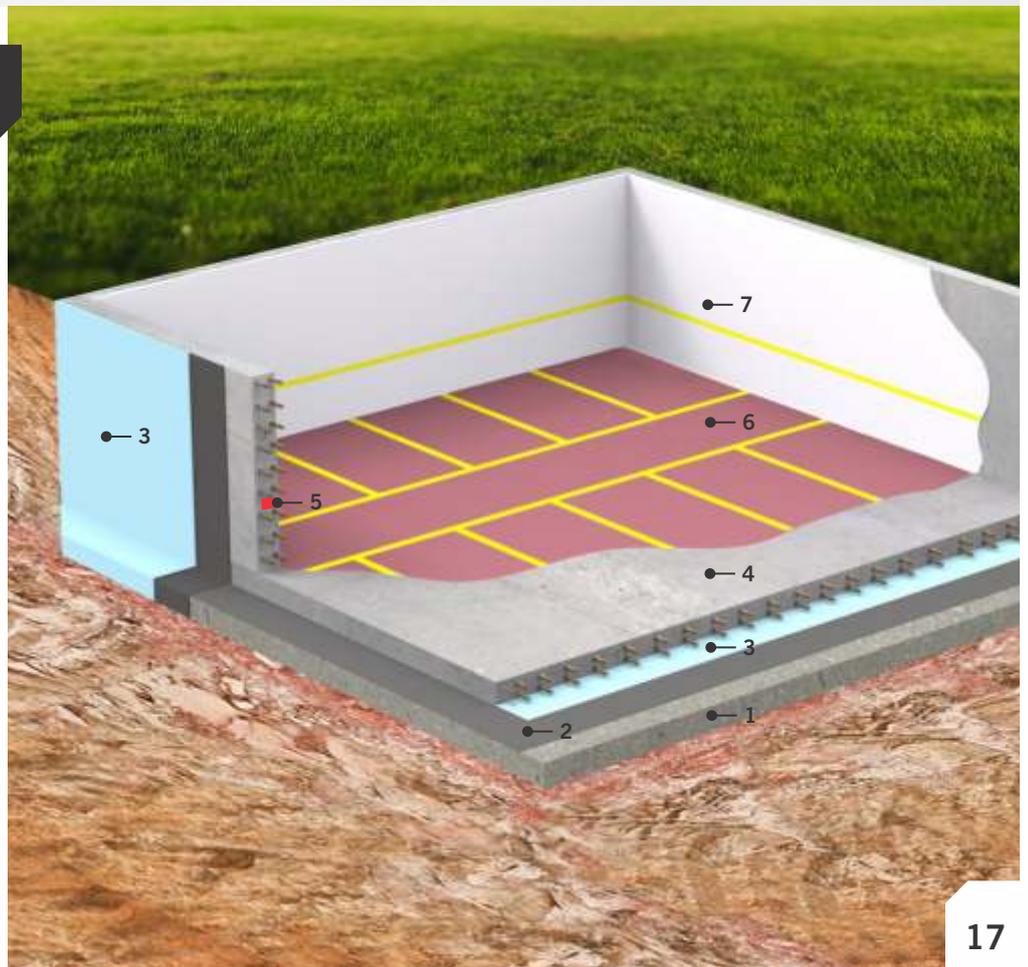
DEEP BASEMENT



1. Concrete substrate
2. Shore piles
3. Skim render
4. Waterproofing membrane
WPM 3000 BG
5. Reinforced concrete
6. Construction joint treatment
WPM SW Series
7. Car park protection
CPS 10 E/ CPS 20 ID
8. Anti-carbonation coating
AC 20

SHALLOW BASEMENT

1. Concrete substrate
2. Waterproofing membrane
WPM 810
3. Protection board
4. Reinforced concrete
5. Construction joint treatment
WPM SW Series
6. Car park protection
CPS 10 E/ CPS 20 ID
7. Anti-carbonation coating
AC 20





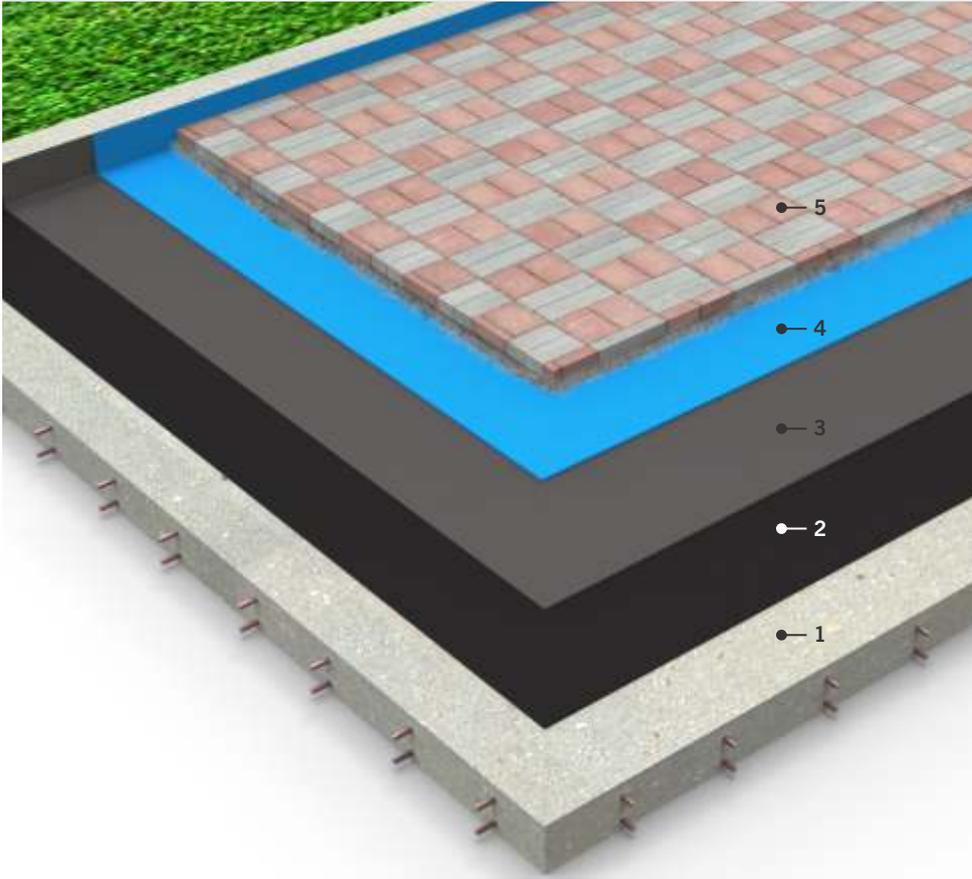
Landscaping systems over suspended podium slabs are becoming more common as housing density intensifies and communities endeavour to increase their green spaces. Podium slabs is an area where one can plan for facilities such as water bodies, landscape, children play area, sports facilities, car parking, etc.

All podium systems have one thing in common: a waterproofing membrane that is not easy to access, service, maintain, or replace once it is fully installed. Therefore, it is prudent to design podiums that have a long service life.

An effective and durable waterproofing system is absolutely critical to ensure the long-term durability of the structure and to keep maintenance costs obsolete by avoiding possible repair.

Proper waterproofing system helps to keep out water and pollutants thereby preventing leakages and also protecting structural elements and embedded steel reinforcement from corrosion damage. A good water-proofing system has to ensure that it keeps performing at optimum level for a very long period of time, even beyond the warranty period to provide maximum value and comfort to the end-user.

PODIUM WATERPROOFING SYSTEMS

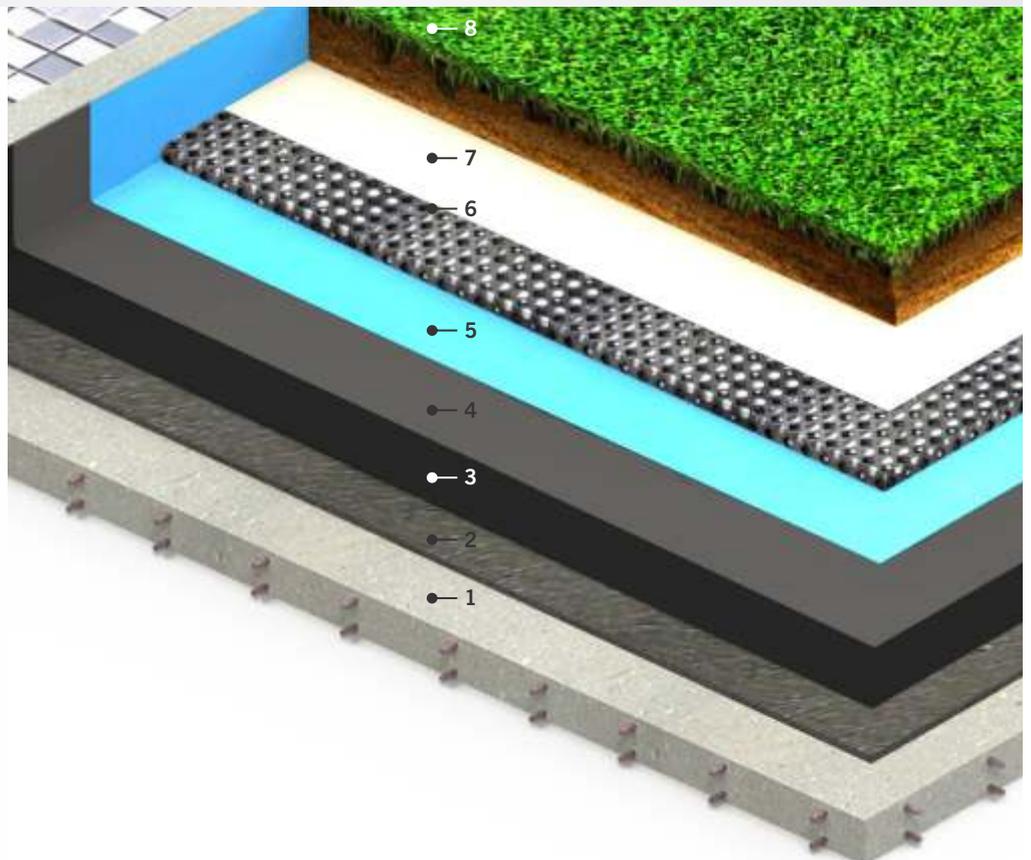


HARDSCAPE

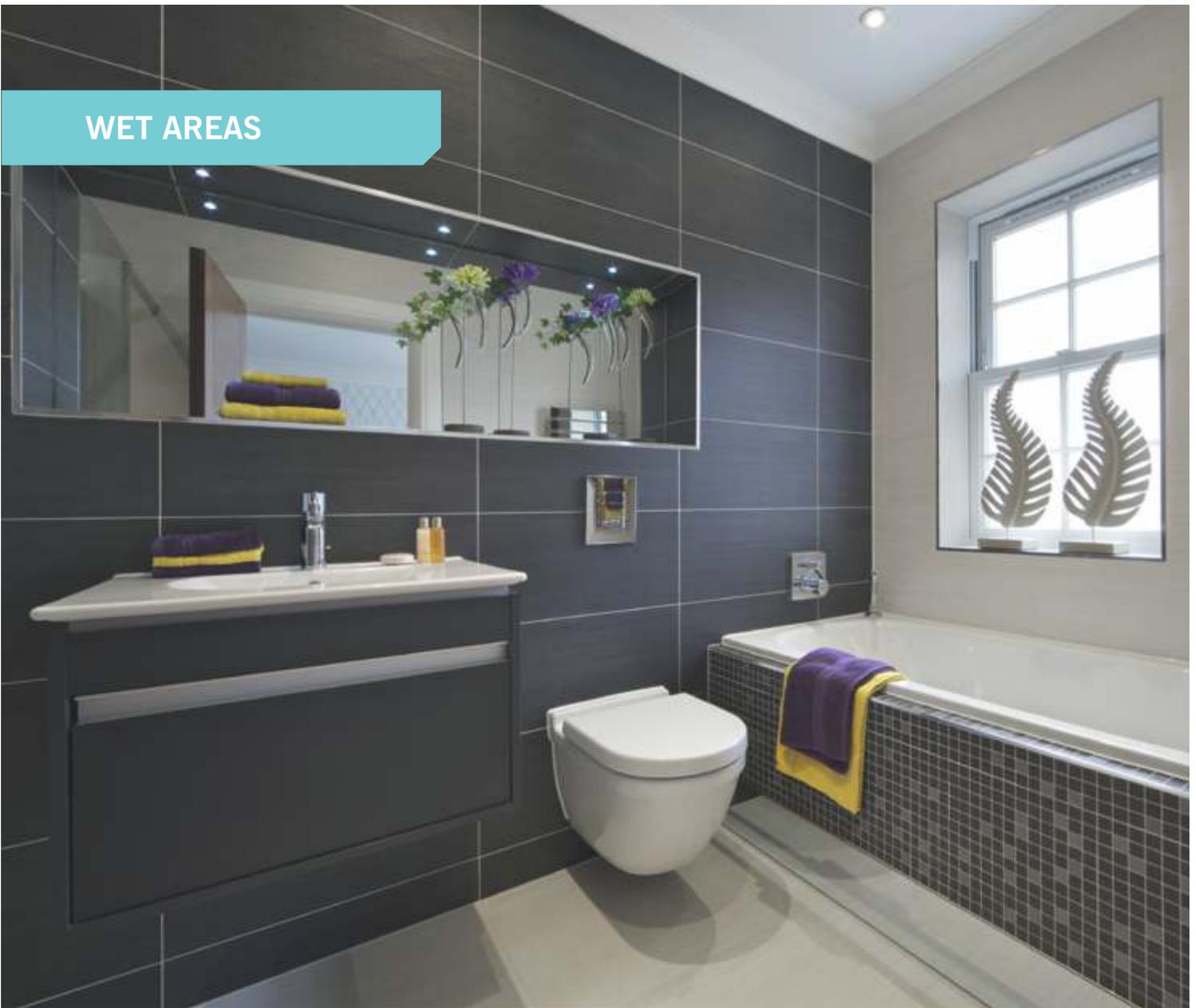
1. Reinforced concrete
2. Waterproofing membrane **WPM 002** (1st coat)
3. Waterproofing membrane **WPM 002** (2nd coat)
4. Protection board
5. Paver tiles

SOFTSCAPE

1. Reinforced concrete
2. Levelling screed
3. Waterproofing membrane **WPM 810** (1st coat)
4. Waterproofing membrane **WPM 810** (2nd coat)
5. Protection board
6. Drainage cells
7. Geotextile membrane
8. Vegetation



WET AREAS



Water tightness of toilets, bathrooms, kitchens and balconies is critical on account of the constant use of water. The effectiveness relies mainly on the adequacy of waterproofing over penetrations, projections and joints and how these discontinuities of the floor and wall elements can achieve a “monolithic” structure. Moreover, to make “leak-free” bathrooms and toilets, the decision to select a specific waterproofing & tile adhesive system should take into consideration of the substrate and area of coverage for a cost effective solution.

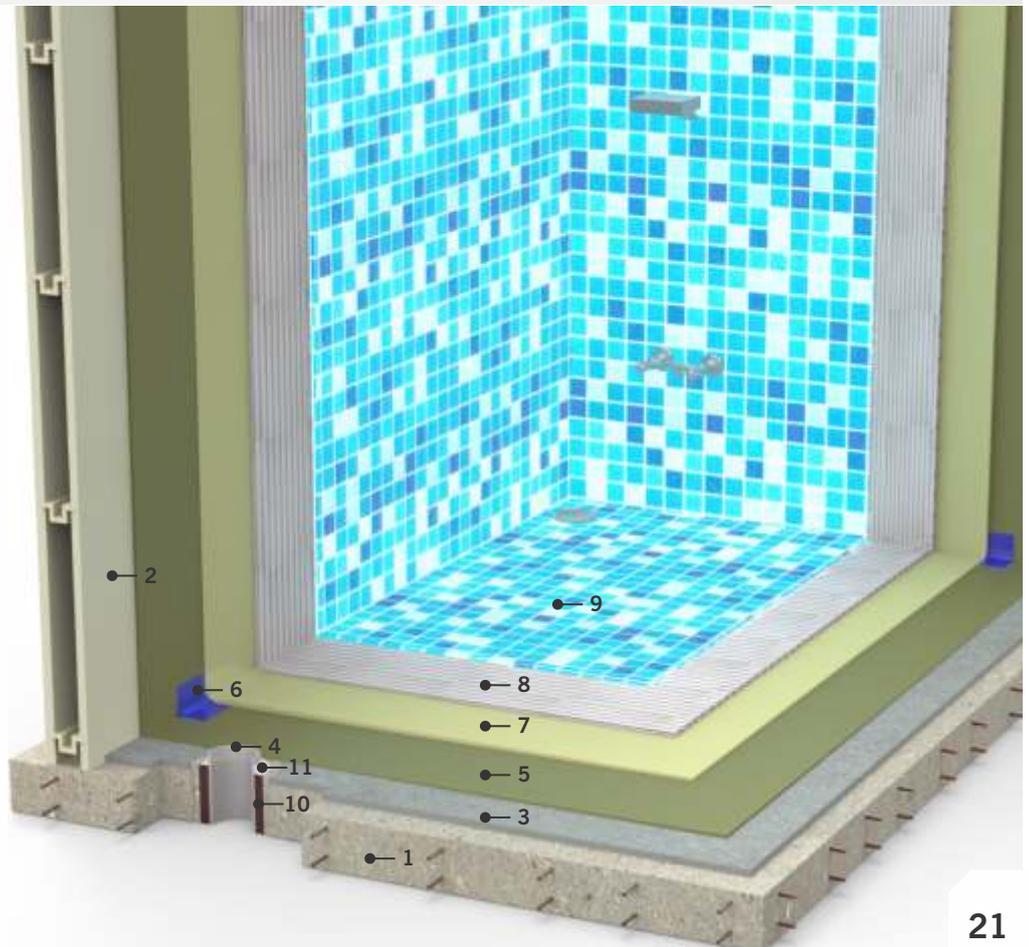
AREAS WITH SUNK & BLOCKWORK



1. Reinforced concrete
2. Coving
E 135 (admix)
3. Waterproofing membrane
WPM 004 (1st coat)
4. Waterproofing membrane
WPM 004 (2nd coat)
5. Brickbat Coba
6. Levelling screed
7. Wall render
8. Tile adhesive for ceramic tiles
GOLD STAR
9. Tile joint grout
EPOXY GROUT

AREAS WITH FLAT SLAB & DRYWALLS

1. Reinforced concrete
2. Drywalls
3. Levelling screed
4. Pipe cut-out
5. Waterproofing membrane
WPM 002/WPM 125 (1st coat)
6. Sealing tape
WPT 312
7. Waterproofing membrane
WPM 002/WPM 125 (2nd coat)
8. Tile adhesive for glass mosaic
DIAMOND STAR
9. Tile joint grout
EPOXY GROUT
10. Bore packing
B 30
11. Sealant
SU 10



FLOOR TILING

New Tiling

Gearing up for tile floors? Traditional cement slurry bond technique has few issues like debonding due to rapid drying of the slurry and tile cracking caused by shrinkage of the cement slurry.

Specially developed adhesive to be used for new floor tiling (fixing vitrified tiles, ceramic tiles and stable natural stones), works exactly as the traditional technique but it is much easier to use and resolves all the problems such as low durability, cracks and weak adhesion. The use of special polymers ensures prolonged workable time ideal for the laying of large tiles and stones. It guarantees chemical adhesion and foot traffic is possible just a day after application due to the rapid drying of the bonded system. Grouting can be done as soon as the system is dry.

Parquet Flooring

It is important that the floor is leveled and smoothed when planning to do wooden, carpets or vinyl finishes. Concrete floors and screeds generally have undulations and needs to be corrected before installing parquet. A self leveling cementitious compound is ideal for smoothing out and level concrete floors.

Parquets are normally installed as floating floor or bonded to the substrate using a suitable adhesive.



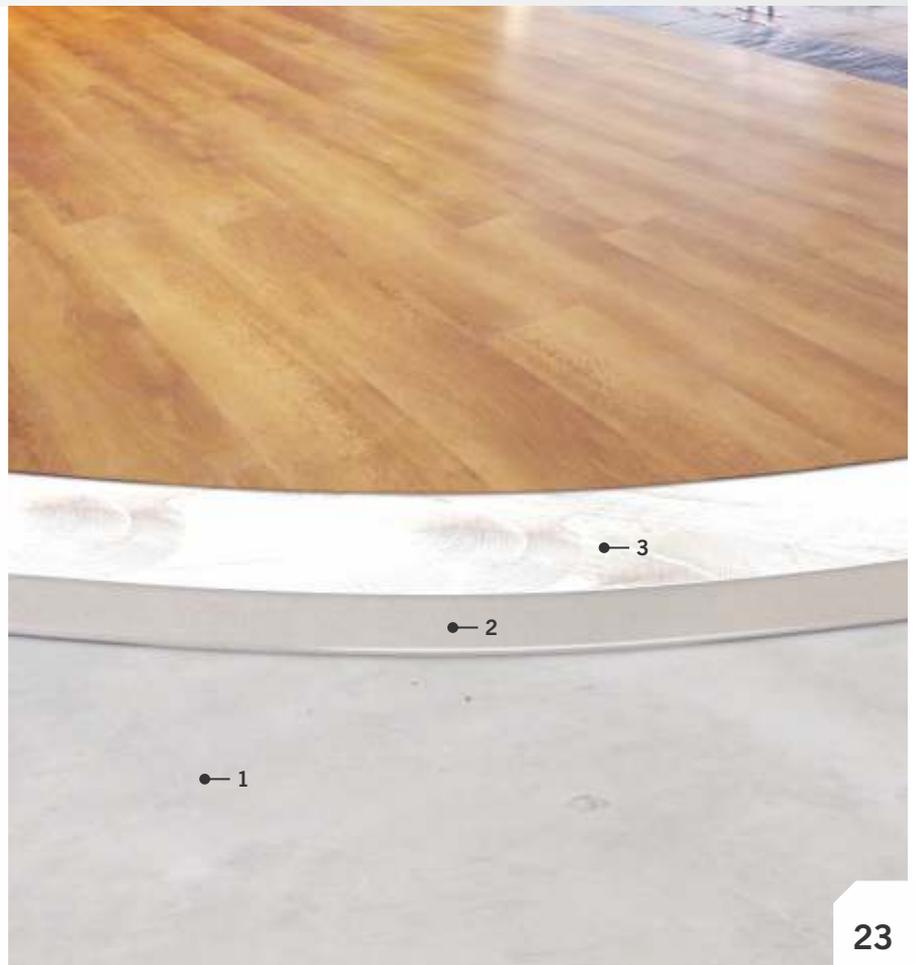
NEW TILING WORK

1. *Concrete substrate*
2. *Bedding mortar*
A 3 (admix)
3. *Slurry adhesive*
S 15 C
4. *Tile joint grout*
**EPOXY GROUT /
CEMENT POLYMER GROUT**

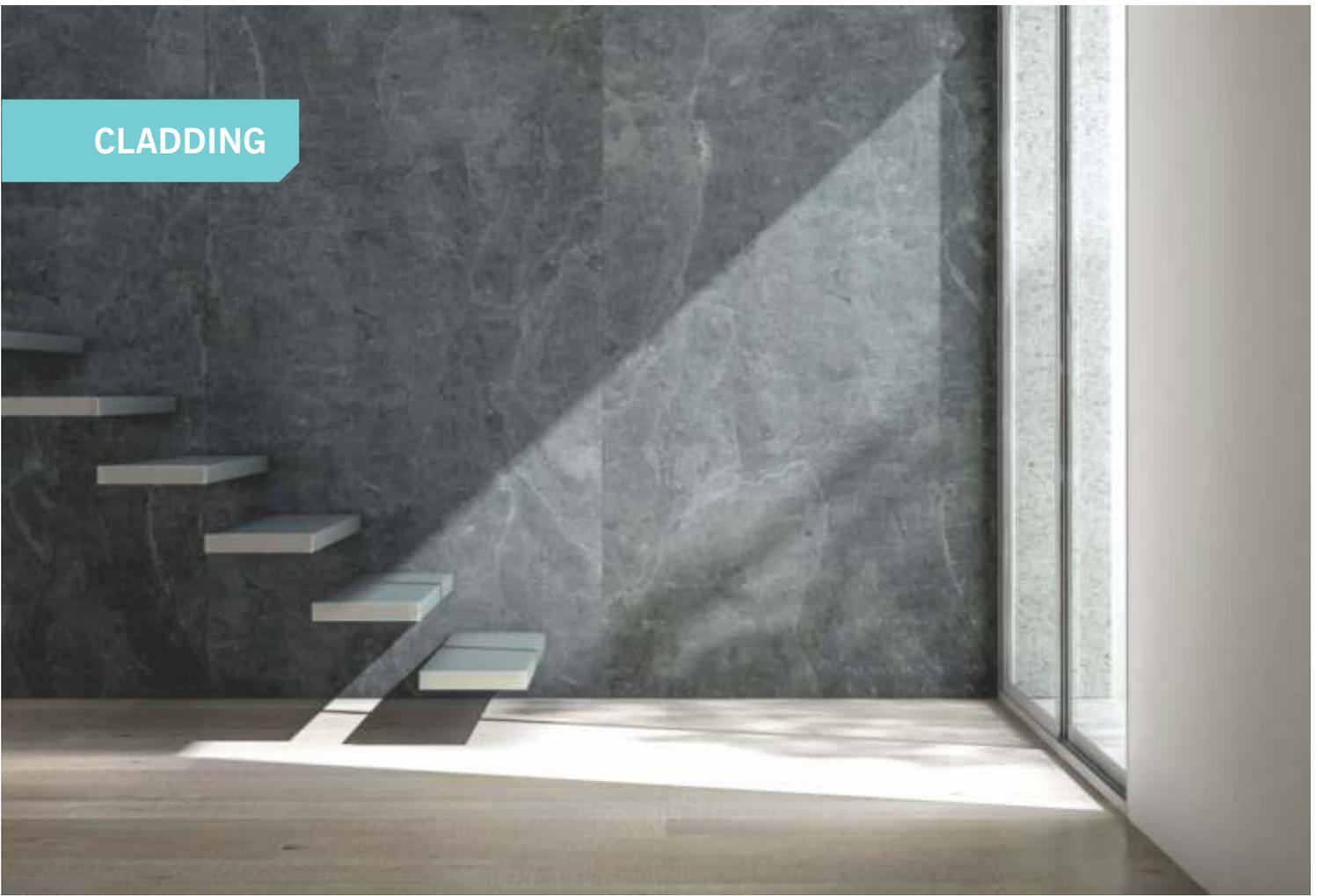


PARQUET FLOORING

1. *Concrete substrate*
2. *Levelling compound*
CL 11
3. *Parquet adhesive*
AF 471



CLADDING



Large slim tiles

Large format thin tiles, that can be as large as 5' x 10' with a thickness from 3 to 6mm, present new challenges for tile installers, compared with standard tile installations.

When installing large format tile, certain procedures and methods must be adhered so that the tile doesn't crack and leave behind a failed installation. Handling, lippage, subfloor preparation, mortar coverage, all require extra consideration during the installation of large format tile. Any imperfections in the subfloor will be highlighted by large format tiles, so the subfloor must be corrected with a self-leveling underlayment, patch, or grinding it down.

Adhesives are formulated to ensure a proper installation is carried out with enhanced properties of slip resistance, flexibility and extended open time necessary for fixing large format tiles and stones on wall/floor in interior/exterior situations.

Wall cladding

External tile/stone cladding is preferred because of its aesthetic, low maintenance and weather proofing values. However, a bad cladding work can lead to irreparable life-threatening situations and expensive refurbishment costs.

Selecting the ideal tile/stone and adhesive is of prime importance for the prolonged existence of the installation. The adhesive should have strong bond, be able to accommodate movements and withstand the exterior harsh conditions.

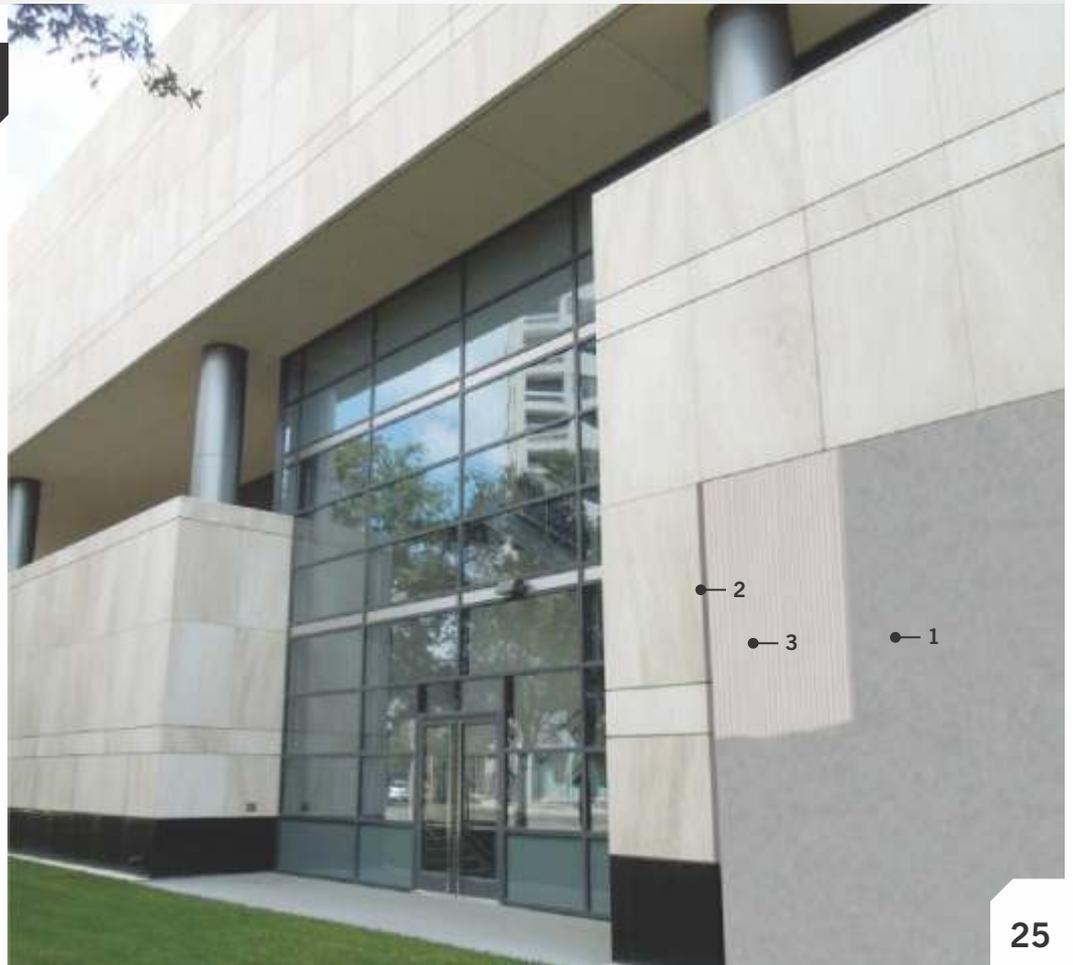
LARGE TILES SYSTEM

1. *Substrate*
2. *Tile adhesive*
ARDIFLEX S1
3. *Tile joint grout*
**EPOXY GROUT /
CEMENT POLYMER GROUT**

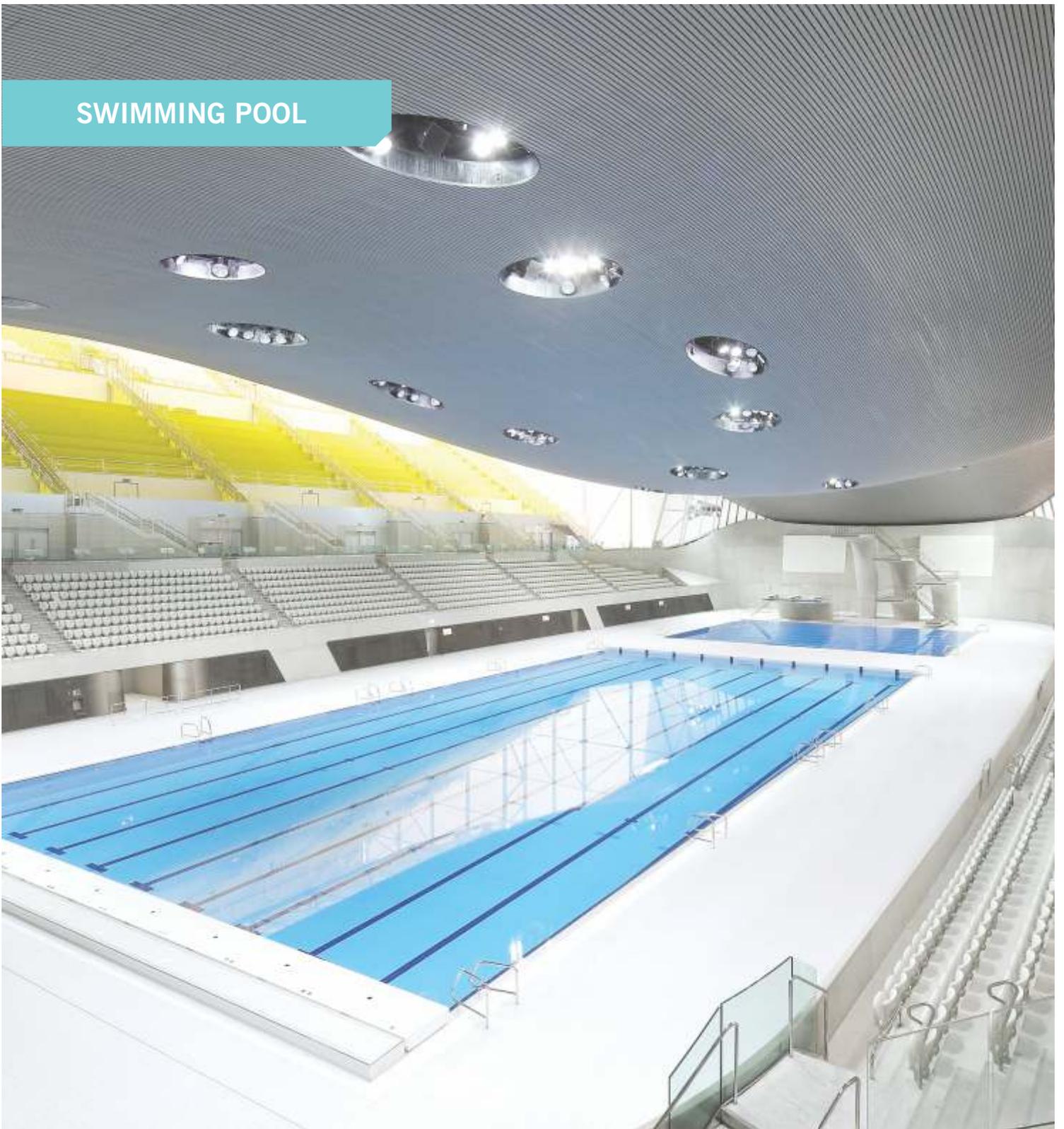


EXTERNAL CLADDING

1. *Substrate*
2. *Under Stone Sealer*
**UNDER TILE & STONE
PRIMER**
3. *Tile / Stone adhesive*
ARDIFLEX S1



SWIMMING POOL



Swimming pool leaks can be very frustrating – and addressing them is often expensive, time-consuming, and sometimes requires removing tile and adhesives.

ARDEX ENDURA offer a complete system approach for the installation of swimming pools, from rapid drying floor screeds that ensure the perfect sub-floor to tile onto, to high Performance tile adhesives and grouts.

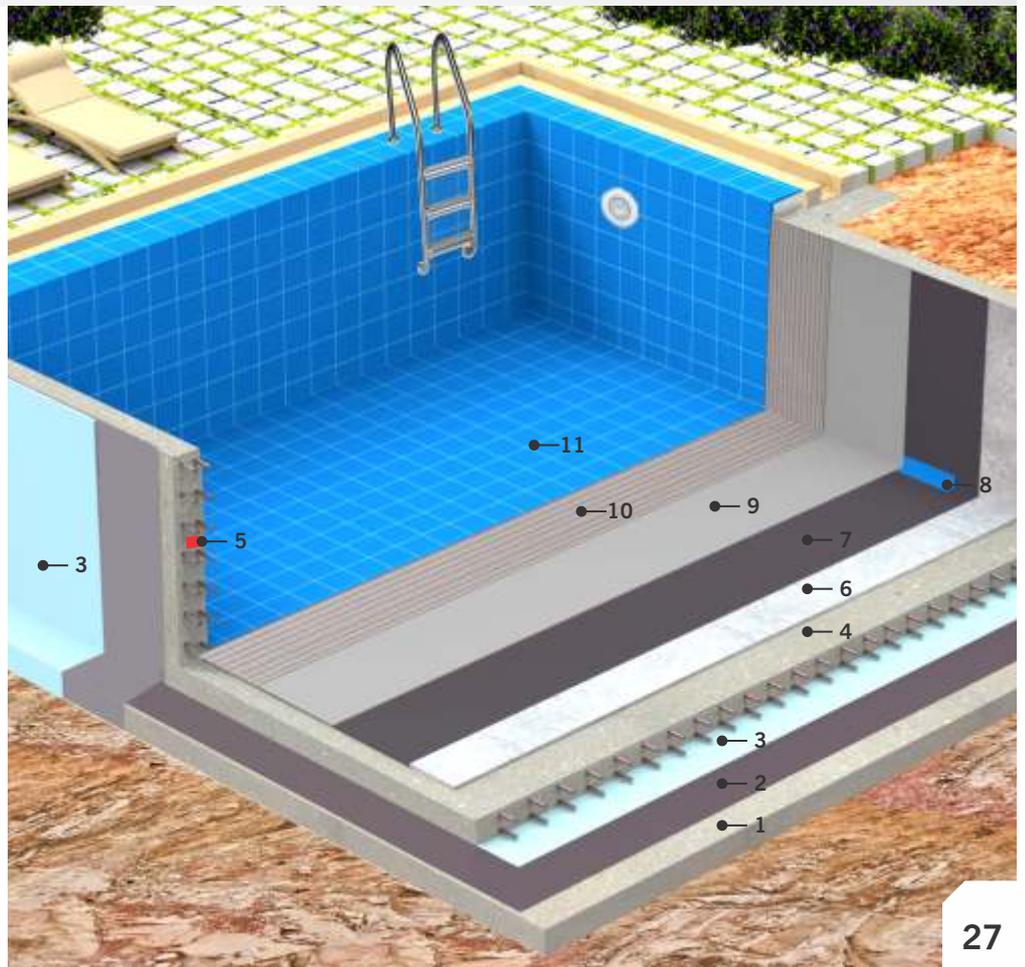
SWIMMING POOL SYSTEMS

SUSPENDED SWIMMING POOL



1. Concrete substrate
2. Levelling mortar
3. Waterproofing membrane **WPM 002 (1st coat)**
4. Sealing tape **WPT 324**
5. Waterproofing membrane **WPM 002 (2nd coat)**
6. Tile adhesive for glass mosaic **DIAMOND STAR**
7. Tile joint grout **EPOXY GROUT**

SWIMMING POOL AT GROUND LEVEL



1. Concrete substrate
2. Waterproofing membrane **WPM 810 (1st coat)**
3. Protection board
4. Reinforced concrete
5. Construction joint treatment **WPM SW Series**
6. Levelling mortar
7. Waterproofing membrane **WPM 004 (1st coat)**
8. Sealing tape **WPM 324**
9. Waterproofing membrane **WPM 004 (2nd coat)**
10. Tile adhesive **DIAMOND STAR**
11. Tile joint grout **EPOXY GROUT**

WATER RETAINING STRUCTURES

Waste Water Tank

One of the most common root causes of deterioration in concrete tanks is corrosion of the reinforcing steel. For tanks that contain wastewater, the chemical resistance of the coating is extremely important. For the coating to be successful in protecting the concrete, it must be resistant to the particular chemicals at certain concentrations in the contained wastewater.

The best time to protect concrete is when it is new, before harsh chemicals like acids, salts and sulphates have had a chance to get inside the concrete and cause damage. For wastewater tanks, polyamine epoxy coatings offer a high degree of chemical resistance and ease of application. Other coating technologies such as polyureas, urethanes and vinyl esters also offer a high degree of chemical resistance but often are not easily applied.

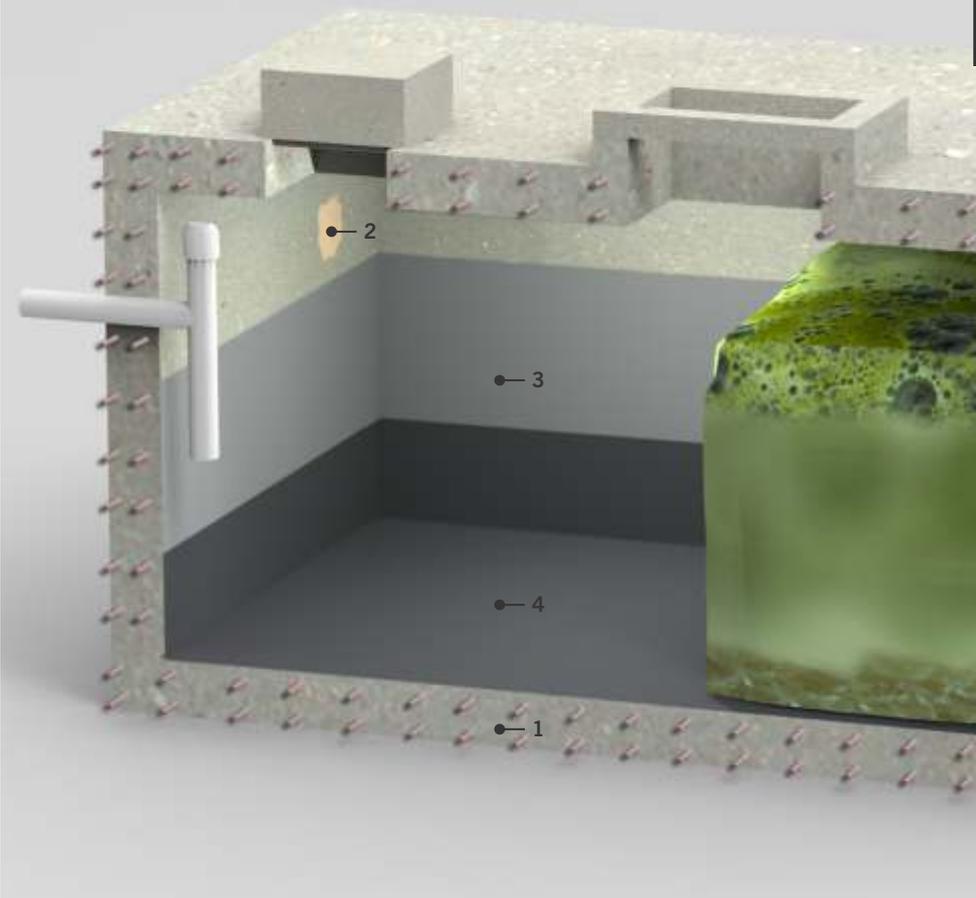
Potable Water Tank

Potable water is an essential requirement for survival. This requires absolute clean and watertight facilities to process and store it. Waterproofing of reservoirs and tanks containing potable water must not only be watertight over long periods, but shall also be easy maintainable, food safe, and harmless to health.

Non Toxic epoxies combine the convenience of a water-based coating with the performance of conventional epoxy. These coatings offer outstanding adhesion and corrosion protection. They are hygienic, odourless, highly acid, alkali and moisture resistant and can withstand heavy abrasion.



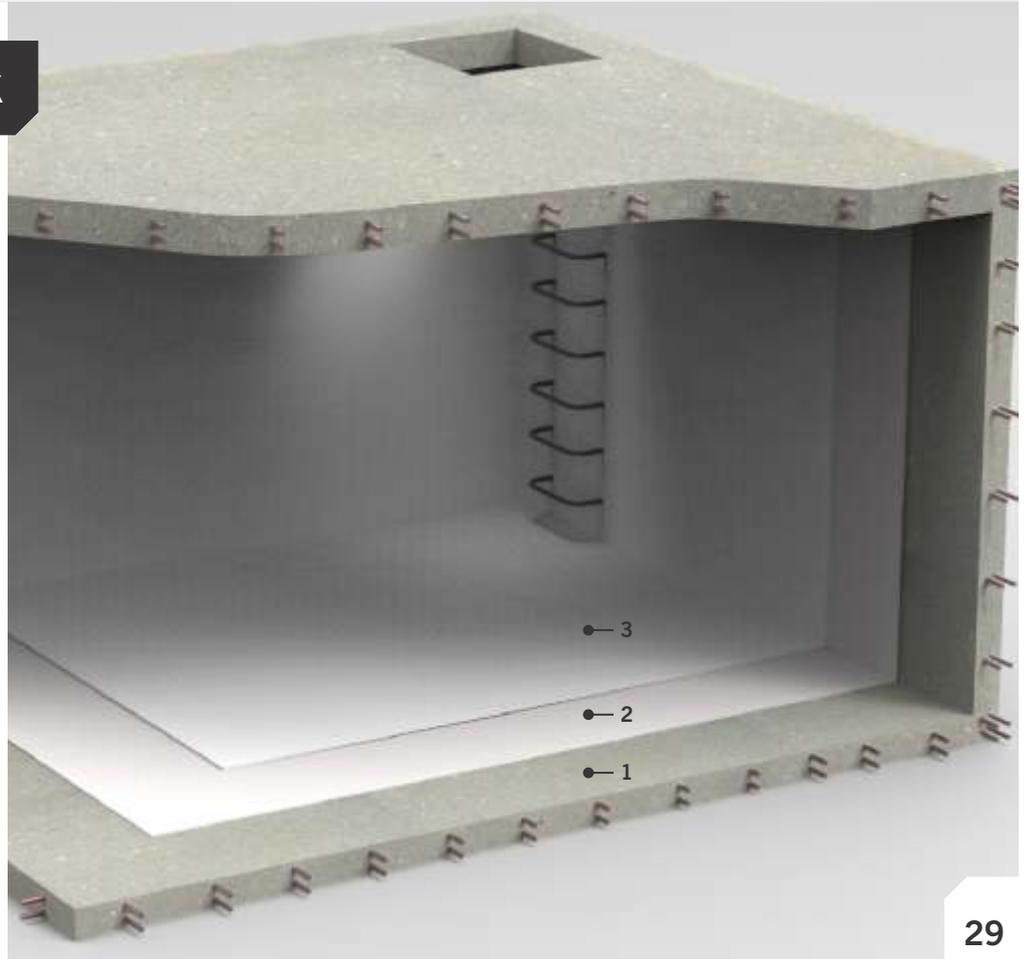
WASTE WATER TANK



1. Reinforced concrete
2. Repair compound **EP 305**
3. Protective coating **R 816 CE (1st coat)**
4. Protective coating **R 816 CE (2nd coat)**

POTABLE WATER TANK

1. Reinforced concrete
2. Waterproofing membrane **WPM 300 (1st coat)**
3. Waterproofing membrane **WPM 300 (2nd coat)**



TERRACE

Concrete is known to be inherently weak in tension; cracks and voids can also form due to thermal expansion, contraction and shrinkage and result seepage of water. Without proper treatment, it is only a matter of time before leaks or moisture end up affecting the interior of our homes. Hence, selection of an ideal waterproofing membrane is an important component of the roofing system to keep the roof water-tight and resist harsh weathering conditions.

Liquid applied membranes

Liquid applied membranes are seamless, semi-flexible, easy to apply, detail, maintain and repair. A liquid applied waterproofing membrane eliminates some of the hassle of installing preformed sheet membranes. There are no seams to treat and transitions up walls and through corners are continuous. The liquid applied membrane is simply brushed, rolled, or sprayed onto the substrate.

Liquid applied waterproofing is preferred for small roofs and roofs with a lot of obstructions. Careful supervision and control during application, with proper substrate preparation, consistent thickness and uniform application ensures longevity of the system.

Preformed sheet membranes

Preformed membranes are generally made of bituminous, synthetic-rubber, thermoplastic polyolefin (TPO) etc. These membranes are either loosely laid or fully bonded. The membranes have the advantage of consistent thickness and good tear resistance. The key focus should be on proper installation and welding of the seams, thereby eliminating the possibility of water seepage.

Preformed waterproofing membranes are generally preferred on large flat roofs as it can accommodated building movements, resistance to indentations caused by foot traffic and easy to install.





PRODUCT INFORMATION

B 30



High strength, cementitious, non-shrink precision grout

Description

B 30 is an advanced, cementitious, structural grout. It has a blend of portland cement, graded aggregates and additives. B 30 is versatile and can be prepared to be of flowable or pumpable consistency by adding the required amount of clean water. This free flowable grout can be used in gap width of minimum 10mm.

Uses

B 30 is used in precision grouting of heavy machinery base plates, compressors, generators, and other equipment demanding high strength properties. It is used for grouting of anchor bolts and prefabricated concrete panels. B 30 is also suitable for general bore packing and void filling requirements.

Benefits

- Controlled expansion ensures rigid bond between base plate & concrete foundation.
- Versatile: can be prepared to be of flowable or pumpable consistency.
- Chloride free and non-corrosive
- High compressive strength
- Suitable for grouting operations of gap width of 10mm - 100mm.

Pack Size

25 kg

Yield

Approx. 13 ltrs for 25kg bag+4.5 ltrs water

B 40



High strength, non shrink, free flowing cementitious micro concrete

Description

B 40 has a blend of portland cement, graded aggregates and additives to improve the flow and physical properties. B 40 is non shrink micro concrete that exhibits excellent flow, free from segregation and bleeding. It is recommended for large volume vertical or horizontal structural repairs wherever the use of formwork is preferable to hand applied repair systems.

Uses

- Large volume concrete repairs
- Repair of corrosion damaged concrete
- Jacketing of beams, columns and other structural elements for strengthening
- For pile head re-profiling

Benefits

- No primer required
- Very high and ultimate compressive strength
- Low permeability: provides very good protection against Carbon dioxide and chlorides
- Self compacting: ensures complete void filling of the repair area
- Versatile: suitable for application thickness of 20mm - 200mm

Coverage Estimates

Pack size
25 kg

Coverage
Approx. 12.30 litres for 25
kg bag + 3.90 litres water

E 10



Expanding and plasticising powder grouting admixture

Description

E 10 is a specially formulated powder for use as an admixture to prepare cementitious grout and slurry. It plasticises the mix at reduced water cement ratio, making placement or injection of the grout convenient on site. It produces controlled expansion to compensate to the plastic shrinkage and settlement.

Uses

- Repairing honeycombs by pressure grouting
- Duct grouting & bed grouting
- Filling gaps between precast elements
- Non-shrink cavity filling
- Filling up the plumbing & electric chases

Benefits

- Reduced water cement ratio: ensures low permeability and improved strength of the grout
- Provides high fluidity: ease of work at site
- Expansive additive: compensate to the plastic shrinkage
- Chloride free: non corrosive

Pack Size

250 g

E 125



Acrylic copolymer based admixture, bonding agent and waterproof coating

Description

E 125 is a modified acrylic copolymer liquid designed for use as a multi-purpose additive with cement to improve the bond strength, flexibility, workability, water resistance etc. E 125 acts an excellent bonding agent for all cement renders and concrete repair.

Uses

- Waterproof coating for wet areas, kitchens, balconies, terraces
- Bonding agent prior to applying renders, screeds/concrete toppings
- As patching mortar for re-profiling of chipped edges
- As an admixture with cement paint for improved water resistance and covering capacity

Benefits

- Water resistant
- Improved flexibility and tensile strength.
- Excellent bond with cementitious substrates
- Reduced water demand for equivalent workability.
- Excellent impermeability to water soluble chemicals and salts
- Resistance to penetration of chloride ions and carbon dioxide
- UV stable: can be left exposed

Pack Size

1 litre, 5 litres & 20 litres

EP 305



Epoxy resin based adhesive and repair compound

Description

EP 305 is a two-part, thixotropic, high performance epoxy adhesive and repair compound. It does not shrink on cure and ideal for fixing expansion joint tapes, gap filling and concrete repair applications.

Uses

- As an adhesive for fixing expansion joint tapes such as WPT 1000
- For filling of blow holes in concrete
- As a crack filling and sealing compound for non-moving joints
- Fixing of surface ports for crack injection
- Dowel bar anchoring

Benefits

- Solvent free adhesive with low VOC
- High strength adhesive/repair compound
- No primer needed
- Can be used in exterior or aggressive environments
- Non shrink
- High abrasion, impact and chemical resistance
- Thixotropic adhesive; suitable for horizontal and vertical applications

Coverage Estimates

Pack size	Coverage
3 kg	Approx. 0.810 m ²
Part A 2 kg	@ 2mm thickness
Part B 1 kg	

R 816 CE



Epoxy coal tar coating

Description

R 816 CE is a two component coating based on unmodified epoxy resin cured with a polyamine curing agent. It has excellent water & alkali resistance where it combines the chemical resistant properties of an epoxy resin with excellent water resistant properties of a coal tar.

Uses

To provide a heavy duty protective, waterproof, and flexible coating in:

- Sewerage & waste water industry
- Aggressive immersion conditions on cementitious & metal substrates.
- Lining of tanks, pipes and ducting, steel pipes
- Jetties, Offshore platforms or marine environments like sluice and barrage gates.
- Underground steel or concrete structures

Benefits

- Excellent resistance against acids and alkalies and varied chemicals
- Excellent abrasion resistance
- Good flexibility
- High build coating
- Easy application: brush, roller, spray
- Seamless finish

Coverage Estimates

Pack Size	Coverage
60 Litres	5 m ² /litre/coat @ 150
Part A 20 litre x 2	microns
Part B 20 litre x 1	

AC 20



Anti-carbonation facade protective coating

Description

AC 20 is an extremely weather resistant water based acrylic anti carbonation protective coating. The high build breathable coating exhibits excellent resistance to attack by carbon oxide, air borne chlorides and acid rain.

Uses

Protection of concrete and masonry of

- Buildings and structures in coastal areas
- Marine or offshore structures such as jetties and berths
- External facade in chemical manufacturing plants, fertilizer manufacturing plants, power plants
- Bridges, flyovers, aquaducts, viaducts
- Chimneys, cooling towers and silos
- Walls, ceilings and columns in multi storey car parks
- AC 20 is not recommended for areas likely to be subjected to traffic.

Benefits

- High resistance to Carbon dioxide (Co2)
- Resistance to fungi & algae growth
- Excellent UV resistance
- Excellent flexibility & crack bridging properties
- Economic and versatile product

Coverage Estimates

Pack size	Coverage
20 litres	Approx. 3.50 m ² /ltr @ 200 microns in 2 coats

SU 10



Single component, polyurethane joint sealant

Description

SU 10 is a low modulus one-component, moisture curing Class A polyurethane sealant. It can accommodate cyclic joint movement of 50% (+/-25%) of the joint width.

SU 10 meets the performance requirements of TT-S-00230C and ASTM C-920

Uses

- Sealing of small joints and fillets, windows and door frames
- Flashing and common roofing detail applications
- Sealing joints of facade panels and curtain walls

Benefits

- No primer required
- Non staining & UV resistance
- Resistance to dilute acids and alkalis
- Excellent extrusion, tooling and storage stability over wide range of climatic condition
- Microorganism and fungus resistant
- Available in Black, Grey and White colours.

Coverage Estimates

Pack Size	Coverage
600 ml sausages (20 sausages per box)	$L = \frac{600}{(W \times D)}$

L = Length of joint (m)
W = Width of joint (mm)
D = Depth of joint (mm)

E 135



SBR based admixture and polymer bonding agent

Description

E 135 is a SBR (styrene-butadiene rubber) based liquid polymer additive which when used with sand/cement composites, greatly increases the resistance to water penetration, and improves the abrasion resistance and durability. It is also used as a bonding agent for old and new concrete.

Uses

- Economical concrete repairs
- Floor patch repair
- Corrosion protection to steel reinforcement
- Admix to cement mortar for coving during waterproofing works

Benefits

- Multipurpose usage: admix for screeds, concrete repair and coving
- Improves water resistance when used with cement mortar for fixing clay tiles/mosaic on roofs.
- High performance polymer additive for cement and concrete mixes
- Bonding agent for old and new concrete
- Water based: low odour & safe to use

Pack Size

1 litre, 5 litres and 20 litres

E 160



Integral waterproofing liquid for concrete and mortar

Description

E 160 is a specially formulated integral cement waterproofing compound in liquid form which contains selected plasticizers, surface active agents and additives. It acts as a water reducing admixture for cement concrete and mortar.

Uses

- Waterproofing admixture with concrete for:
- Sunken slab, podium slab.
- Water retaining structures.
- Swimming pools.
- Roof slabs and cement screeds / mortar
- Basements
- External plastering

Benefits

- Complies as per IS 2645-2003 Standards
- Improved workability
- Improved cohesiveness
- Good water reduction: improves durability
- Reduced segregation and helps to protect steel corrosion
- Minimizes shrinkage cracks
- Minimizes the permeability and increases the waterproofing properties

Dosage

200 ml per 50 kgs of cement.

Pack Size

200 ml, 1 litre, 5 litres & 20 litres

WPM 415 C



Crystalline capillary waterproofing

Description

WPM 415 C is a single component polymer modified cementitious waterproofing compound. The mixed slurry has excellent adhesion with concrete / sand cement screed. During application it seals the hairline cracks caused by shrinkage or expansion.

Uses

Basements, Retaining walls, Wet areas, Balcony, Roof terrace areas, sewage treatment and water treatment plants, water tanks & concrete pipes and manholes etc.

Benefits

- Deeply penetrates and seals the substrate
- Single component system, no addition of liquid component except water at site
- Suitable for external and internal application
- Toxic free : Providing protection against corrosive waterborne salts
- Can be left exposed
- Conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with potable water.

Coverage Estimates

Pack Size	Coverage
20 kg	Approx. 13 - 16.50m ² @ 150 - 200 microns in two coats

WPM 004



Acrylic modified flexible cementitious waterproof coating

Description

WPM 004 is a two component, acrylic modified cementitious waterproofing compound. It has been uniquely formulated with special polymer to increase its strength. WPM 004 is based on the most advanced acrylic polymer technology and is totally resistant to re-emulsification.

Uses

- Wet areas, kitchens & balconies
- Water tanks & retaining walls
- As exposed waterproofing for non accessible roofs

Benefits

- Flexible : accommodates minor cracks
- Protect the concrete from long term weathering.
- UV stable : Can be left exposed
- Water based : safe to use, low odour & easy cleaning
- Excellent bond with cementitious substrates
- Self primed
- Non toxic : Can be safely used as internal waterproofing of potable water tanks

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 14 m ² / kit
Part A 5 litres	@ 0.8 mm - 1.0 mm
Part B 15 kg	thickness for two coats

WPM 002



Two component undertile waterproofing membrane

Description

WPM 002 is a tough, fast drying two component waterproofing membrane specifically designed for use under tiles. The product has been uniquely formulated with synthetic microfibers to increase its strength and eliminate the need for a separate reinforcement mat.

Uses

- Internal Wet Areas & Drywalls
- Balconies and Decks
- Swimming Pools
- Other waterproofing areas that will be tiled or otherwise protected from regular foot traffic

Benefits

- Fast drying: can be tiled over in 16 - 24 hours
- Flexible: accommodates normal building movement
- Advanced acrylic: will not re-emulsify
- Fully compatible with polymer modified tile adhesives.
- Water based
- Conforms to the requirements of
- AS/NZ 4858:2004 Wet Area Membranes

Coverage Estimates

Pack size	Coverage
40 kg	Approx. 16 - 24m ² / kit
Powder 20 litres	@ 0.8 mm - 1.2 mm
Liquid 20 kg	thickness for two coats

WPM 125



Single Component Liquid Waterproof Membrane

Description

WPM 125 is a single component, ready to use, liquid applied elastomeric waterproof membrane. WPM 125 comprises of special blend of copolymers and additives to provide an excellent, seamless, flexible and quick - drying waterproofing membrane.

WPM 125 is an ideal waterproof and protection coating for absorbent substrates like gypsum fibre boards, plaster boards, cement boards, screeds, cementitious levelling compounds, concrete etc.

Uses

WPM 125 is suitable for waterproofing (concealed) application for Wet areas, Kitchens, Balconies, Dry walls, Underlayment to Walkways, terraces, planter boxes

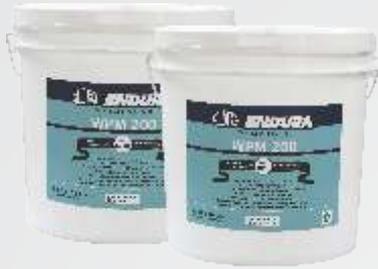
Benefits

- Single component: ready to use
- Fast drying & Flexible
- Water based
- Excellent bond with cementitious substrates

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 18m ² in 2 coats@ 0.35 mm WFT per coat The DFT in 2 coats is approximately 0.5 mm

WPM 200



Water based epoxy sealer

Description

WPM 200 is a two component water based epoxy polyamide unpigmented sealer, binder used for sealing surfaces and providing a strong bond to difficult or improperly prepared surfaces.

Uses

- Penetrating sealer
- As a consolidation sealer for weak aged concrete
- As a bonding coating
- As a waterproofing sealer

Benefits

- Can be applied to wet or damp surfaces
- Can be applied to fresh green concrete.
- Consolidates weak or rain affected concrete surfaces to form a firm substrate for subsequent treatments.
- Has good penetration,
- Tolerant to improperly prepared surfaces.
- Has excellent adhesion to most substrates
- Non-flammable & negligible odour.
- Safe to use in sensitive locations (e.g. around food or habitable areas).

Coverage Estimates

Pack Size	Coverage
20 litres	Approx. 8 -14 m ² / coat/lt
Part A 10 litres	
Part B 10 litres	

WPM 300



Water based epoxy membrane

Description

WPM 300 is a two component, high build, water based epoxy polyamide membrane/barrier coating with excellent resistant to hydrostatic pressure and good bond to damp surfaces.

Benefits

- Excellent adhesion to damp surfaces and freshly laid green concrete.
- Water resistant: prevents rising damp and efflorescence.
- The cured membrane will withstand hydrostatic pressure of 25m head of water (when applied directly to the substrate) and 40m head of water (when used wet on wet over WPM 200).
- Can be over coated using almost any decorative or industrial finishing paint.
- Conforms to requirements of CFTRI and international standards (AS/NZS 4020:1999 and BS 6920:2000) for use in contact with potable water.

Coverage Estimates

Pack Size	Coverage
20 litres	Approx. 1.5m ² /ltr in
Part A 10 litres	2 coats @ 600 microns
Part B 10 litres	WFT

WPM 309



Elastomeric, external facade & roof coating

Description

WPM 309 is a single component; tough, UV resistant; acrylic based highly elastomeric waterproof coating for exterior walls and roofs. The cured membrane has good crack-bridging properties.

Uses

Waterproofing & Protection of

- Exterior RCC surface
- Masonry walls
- Asbestos roofs
- China mosaic tiles
- Sloping roofs

Benefits

- Highly flexible: can bridge existing cracks (up to 0.5 mm).
- Good elasticity and resilience for substrate's thermal expansion and contraction
- Provides good UV resistance
- Microbial resistance: provides long term protection from fungi / algae growth
- Microporous: breathability for preventing moisture
- Can be applied on damp surfaces
- Excellent resistance to alkali
- Resistance to chalking and flaking.

Coverage Estimates

Pack Size	Coverage
20 litres	Approx. 4.0 m ² /ltr @ 110 microns DFT in 2 coats

WPM 310



External facade and roof membrane

Description

WPM 310 is a tough, UV stable flexible, premixed liquid applied waterproofing membrane. It has been specifically formulated as a general purpose membrane for exposed wall. WPM 310 can be applied as an aesthetically attractive textured or semi-smooth finish for walls. WPM 310 is available in a range of standard colours.

Uses

Waterproofing & Protection of

- Exterior RCC surface
- Masonry walls or facades
- Stone walls
- Asbestos
- China mosaic tiles
- Sloping roofs

Benefits

- Flexible: accommodates normal building movement.
- Provides excellent UV resistance and long term protection from elements.
- Excellent workability: easy, quick to apply.
- Decorative : choice of colours.
- Water based : safe to use, low odour and easy cleaning.

Coverage Estimates

Pack Size	Coverage
15 litres	Approx. 24 m ² @ 0.3mm DFT in 2 coats

WPM 810



Elastomeric, single component, polyurethane based cold liquid applied waterproofing

Description

WPM 810 is a single component; high performance polyurethane based cold applied elastomeric waterproofing membrane. WPM 810 exhibits high elasticity, excellent bond and low water permeability and makes it ideal for a wide range of waterproofing applications.

Uses

- Waterproofing of podiums, suspended floors, planter boxes, terraces
- Waterproofing of underground structures
- Waterproofing of car decks, bridges and inverted roofs.

Benefits

- Non Toxic: eco friendly coating
- Seamless cold-applied membrane: eliminates lapping, seaming, and pre-cutting
- Highly flexible
- Root Resistant
- Protection against corrosive soil conditions
- Thermally stable
- Excellent adhesion to concrete substrates
- Excellent resistance to oxidation
- Good chemical resistance

Coverage Estimates

Pack Size	Coverage
20 kg	Approx. 18m ² @ 1mm

WPM 158



High build, single component, elastomeric polyurethane based waterproofing membrane

Description

WPM 158 is single component, high build, aliphatic polyurethane based elastomeric liquid applied waterproofing membrane which finds various usages in the construction industry.

Uses

- Suitable for external areas of waterproofing, on walls and roof subjected to ultra-violet radiation.
- Does not require protective screed.
- Can be applied on damp visibly dry surfaces without the fear of blistering.
- Environmentally friendly product, does not give off fumes or gases which will affect health.
- Suitable for use in confined areas because of its non-odour formulation
- Suitable for application on metal surfaces.

Benefits

- Excellent compatibility with almost every construction material.
- Good resistance to wide range of chemicals & oils.
- Resistant to abrasion and blushing
- Elastomeric
- Weather and UV resistant.
- Excellent flexibility

Coverage estimates

Pack Size	Coverage
25 kg	Approx. 2 kg/m ² in 2 coats for 1 mm DFT

WPM 3000 BG



Composite, blindside HDPE membrane

Description

WPM 3000 BG is a unique composite sheet, comprising of a HDPE backing layer, a pressure sensitive adhesive membrane and trafficable weather resistant protective granular layer. The membrane firmly bonds to the poured concrete preventing ingress or migration of water around the structure.

Benefits

- Can be applied to a variety of substrates including compacted earth, concrete and formwork.
- Resistance to water migration: eliminates water and vapor migration by forming a strong mechanical bond to the concrete structure
- Superior barrier: acts as a barrier against aggressive ground salts, toxic contaminants and chemicals including methane gas, which may attempt to enter the structure through cracks in the concrete
- Fully-adhering, watertight laps
- Good crack protection
- Flexible material that adapts to jobsite irregularities for ease of installation

Packing

Length	:	20m
Width	:	1.0m
Thickness	:	1.2mm

Accessories

- WPM 3000 DSA - Double Sided Adhesive Tape - 100mm x 10m
- WPM 3000 BT - HDPE based Butt Joint Tape - 160mm x 20m
- WPM 3000 ST - HDPE based Sanded Tape - 100mm x 20m

WPM SW



Swellable waterbar

Description

WPM SW is a swellable waterbar based on polymer technology and designed for use in construction joints. WPM SW slowly swells in volume when in contact with water and efficiently waterproofs the construction joint. The pressure of the swelling action will cause the WPM SW to profile itself exactly into the joint and effectively stopping water seepage, even at high external water pressure.

WPM SW is suitable for all construction joints subject to hydrostatic pressure, on one or both sides. Movements in the joint (eg., shrinkage or settlement in the substrate) are taken up by the elastic profile of the waterbar.

Uses

- Construction joints in basements, swimming pools, water reservoirs, effluent treatment plants etc.
- Pipe penetrations & cut-outs

Benefits

- Unrestrained volumetric expansion of 300%
- Flexible and swellable, can absorb construction movements
- Swelling properties unaffected by long term wet/dry cycling
- Suitable for all water qualities including saline water
- Expands slowly to ensure non-disturbance of fresh concrete
- Easy to install

Type & packing

- WPM SW 110 - 10mm x 10mm x 100 RMT
- WPM SW 206 - 20mm x 6mm x 100 RMT
- WPM SW 210 - 20mm x 10mm x 100 RMT

BUTYNOL



Roofing membrane

Description

A synthetic rubber with properties which resist ageing from heat, sunlight and ozone. It has excellent gas impermeability and toughness and remains flexible at low temperatures.

Butynol® is manufactured by combining the petroleum gases isobutylene and isoprene at the extremely low temperature of - 100oC. (Rubber Technology - Morton) Butynol® is marketed by ARDEX ENDURA as warranted roofing and tanking product and fixed by their trained and experienced approved applicators.

BUTYNOL gauges & uses

Standard 1.0mm - For roofs and gutters.

1.2mm - For roofs.

1.5mm - For roofs and walk out decks.

2.25mm - Heavy Duty

Factory welded panels in all gauges can be custom made.

Pack Size

Rolls size: 1.4 m width and 17.86 m long.

Gauges available	Weight	Coverage
1.0mm black	nominal 30kg	25 m ²
1.5mm black	nominal 45kg	25 m ²
2.25mm black	nominal 32kg	12 m ²
1.2mm dove grey	nominal 30kg	25 m ²
1.5mm all colours	nominal 47kg	25 m ²

WPT 1000



High performance waterproofing tape

Description

WPT 1000 is a waterproofing tape based on thermo plastic elastomers (TPE) to provide a highly elastic and chemically resistant sealing of expansion joints, cracks, irregular and unconventional joints. WPT 1000 is for installation with EP 305 epoxy adhesive on various building substrates in critical areas with high and/or frequent movements.

Uses

Ideal for very large expansion joints and joints with extreme movements for areas such as

- Basements
- Podiums
- Tunnels and Culverts
- Reservoirs & Ponds
- Roofs & Facades

Benefits

- Highly flexible
- Good chemical resistance
- Long lasting elasticity, even at high temperatures
- Good resistance to hydrostatic pressure
- Available in various widths between 100mm to 1000mm

Roll Size

20m x 100mm x 1mm

20m x 200mm x 1mm

20m x 300mm x 1mm

Note: Other widths between 300 mm - 1000 mm are available upon request

WATERPROOFING ACCESSORIES

WPT 312

Waterproofing tape / flashing for construction joints

Description

Special coated non-woven: extension in cross direction and rigid lengthwise, strong, thin, high tenacity

Uses

Flashing for indoor expansion and other construction joints

Technical Data

Total width/ Coating width	120mm / 70mm
Total thickness	0.60 mm
Length per roll	50 metres

WPT 324

Waterproofing tape / flashing for construction joints

Description

Special coated non-woven: excellent extension in cross direction and rigid lengthwise, strong, high tenacity

Uses

For covered outside application, flashing for construction joints and other joints

Technical Data

Total width / Coating width	240mm / 140mm + 100mm
Total thickness	1.34 mm
Length per roll	30 metres

WPM Deck Web

Reinforcement for Liquid Waterproofing

Description

WPM Deck Web is a polyester non-woven felt reinforcement with glass filament for greater durability. It is designed to be used as an embedding in liquid waterproof coatings for crack bridging and also in situations where cracks in the substrate can be formed on a later stage. It ensures maintenance of even thickness of coating at critical areas

Benefits

- High resistant to tear
- High durability & flexibility
- Resistant to salts & chlorinates
- Available in white and green colours
- Available in varied gauges of 40 gsm, 50 gsm, 60 gsm and 70 gsm

WA 98

Butynol adhesive

Description

WA 98 is a high performance roofing contact adhesive. It has been specially developed for bonding butyl rubber sheeting to roofing substrates. It's convenient and economical spraying, combined with its long tack life; make it ideal for bonding large areas.

Benefits

- Spray grade - Formulated for optimum performance for spraying.
- Multi-purpose uses - Flooring, roofing, etc.
- Fine glue line - Enhanced finished product appearance
-

Coverage Estimates

Pack Size 25 litres	Coverage Approx. 2m ² per litre
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AF 131



Adhesive for vinyl floor covering sheet and tiles

Description

AF 131 is water-based, low odour, solvent free, polymer emulsion-based single component floor covering adhesive containing a blend of high quality dispersions, mineral fillers and water. AF 131 has a long tack time, with very good early and long term adhesive strength.

Uses

- As an adhesive for all types of vinyl (PVC and vinyl tiles or cushioned type flooring) and most carpets
- Can be applied on chip board, hard board, plywood etc
- Designed for use on concrete and sand/cement screeds, levelling and smoothing compounds, terrazzo.

Benefits

- Good initial tack
- Extended tack time
- Economical
- Water-based, solvent free formulation
- Very low odour
- Easy to apply
- Can be used on vertical surfaces
- Single component product
- Floor covering adhesive for internal use

Coverage Estimates

Pack Size	Coverage
5 kg	Approx. 4.5 - 5.0 m ² /kg

AF 471



Parquet floor adhesive

Description

AF 471 is a high solids acrylic-urethane adhesive used for almost all types of interior wood flooring that are recommended for glue - down installations. AF 471 is extremely moisture resistant and has excellent ultimate bond strength while maintaining the elongation characteristics necessary to allow for some wood movement.

Uses

As an adhesive for fixing Solid wood, Parquet, Engineered wood plank, Cork sheet underlayment

Suitable Substrates

- Porous: Concrete, cementitious underlayments and radiant heated subfloors where temperatures do not exceed 30 C on all grade levels. Can also be used over properly primed gypsum underlayments (above-grade only).
- Non-porous: Cork sheet underlayments, existing well bonded non-cushioned vinyl, tile and sheet flooring.

Benefits

- High solids acrylic - urethane
- Excellent initial grab
- Fast strength development
- High ultimate bond strength & elongation
- Enhanced moisture & alkali resistance
- Anti-microbial product protection

Pack Size

21 kg

SILVER STAR



Polymer modified tile adhesive

Description

Polymer modified grey cement-based adhesive, suitable for fixing ceramic tiles for floors & walls in interior situations. Suitable for fixing ceramic tiles upto 6 mm bed thickness (can be extended up to 12 mm thickness in area of limited extent). The set adhesive is water-resistant and is suitable for use in showers and bathrooms. Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Benefits

- Good bond strength
- Water resistant
- Easy mixing & application
- Complies to the requirement of IS 15477: 2004 Type1

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 3 kg/m ² using a 6mm x 6mm square notch trowel

GOLD STAR



High polymer modified, cementitious, tile/stone adhesive

Description

High polymer modified, grey cement based tile adhesive suitable for fixing wall and floor tile/stone in interior and exterior situations upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and is suitable for use in showers and wet areas. By addition of ADMIX AD1, GOLD STAR is suitable for use in totally submerged conditions such as swimming pools.

GOLD STAR is used for wall and floor tiles, mosaics, vitrified and fully vitrified tiles, terrazzo and natural stone.

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Benefits

- High bond strength
- Easy mixing, smooth application & better workability
- Water resistant
- Complies to the requirement of
- IS 15477: 2004 Type 2

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 3 kg/m ² using a 6mm x 6mm square notch trowel

WHITE STAR



White cement based, high polymer modified, tile/stone adhesive

Description

High polymer modified, white cement based tile adhesive suitable for fixing wall and floor tile & natural stone in interior and exterior situations upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and is suitable for use in showers and totally immersed situations such as swimming pools.

WHITE STAR is used for wall and floor tiles, mosaics, vitrified and fully vitrified tiles, marble, terrazzo and natural stone.

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Benefits

- High bond strength
- Easy mixing, smooth application & better workability
- Water resistant
- Complies with the requirement of
- IS 15477: 2004 Type 2

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 3 kg/m ² using a 6mm x 6mm square notch trowel

DIAMOND STAR GREY



High performance, polymer modified, non-slip adhesive

Description

Grey cement based, high polymer modified, high strength adhesive for fixing tile & stone on wall/floor in interior/exterior situations upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and non-slip.

DIAMOND STAR Grey is flexible and can accommodate shocks due to impact load and heavy traffic. It is used for fixing ceramic, vitrified & fully vitrified tiles, glass mosaic, porcelain, terrazzo, natural stone and engineered stone.

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Benefits

- Very high bond strength
- Non-slip
- Flexible adhesive
- Water resistant
- Easy mixing, smooth application & better workability
- Complies with the requirement of
- IS 15477: 2004 Type 2

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 3 kg/m ² using a 6mm x 6mm square notch trowel

DIAMOND STAR WHITE



High performance, polymer modified, non-slip adhesive

Description

White cement based, high polymer modified, high strength adhesive for fixing tile & stone on wall/floor in interior/exterior situations at upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and non-slip.

DIAMOND STAR White is flexible and can accommodate shocks due to impact load and heavy traffic. It is used for fixing ceramic, vitrified & fully vitrified tiles, glass mosaic, porcelain, terrazzo, natural stone and engineered stone.

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Benefits

- Very high bond strength
- Non-slip
- Flexible adhesive
- Water resistant
- Easy mixing, smooth application & better workability
- Complies with the requirement of
- IS 15477: 2004 Type 2
- Complies with the requirement of
- EN 12004 C1T

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 3 kg/m ² using a 6mm x 6mm square notch trowel

PLATINUM STAR



Premium quality, high polymer modified deformable adhesive

Description

White cement based, water & frost resistant, high polymer modified, high strength adhesive for fixing tile and stone on wall/floor in interior/exterior situations upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and suitable for use in swimming pools.

PLATINUM STAR White is used for fixing ceramic, vitrified & fully vitrified tiles, glass mosaic, porcelain, terrazzo, metal or glass tiles, non staining natural stone and engineered stone.

Benefits

- Very high performance and strength
- Flexible adhesive
- Premium multi use adhesive
- Excellent water and frost resistance
- Excellent tensile & shear adhesion
- Easy mixing, smooth application & better workability
- Complies with the requirement of
- IS 15477: 2004 Type 2
- Complies with the requirement of
- EN 12004 : 2007 C2ES1

Coverage Estimates

Pack size	Coverage
20 kg	Approx. 2.75 kg/m ² @ 6mm x 6mm square notch trowel

FLEX



Two component, flexible tile/stone adhesive for wood & metal surface

Description

Two-part adhesive comprising of rubber-based powder and water based polymer liquid. Flexible adhesive for use in areas where tiling is likely to be subjected to some limited background movement or vibration, especially wood, plywood & metal surface. Available in grey and white.

Benefits

- High performance flexible adhesive
- Suitable for wood & metal surface
- High tensile strength
- Water and frost resistant
- Suitable for use in interior and exterior locations
- Suitable for submerged conditions
- Complies with the requirement of IS 15477: 2004 Type 2

Coverage Estimates

Pack size	Coverage
FLEX Grey	
15.41 kg	Approx. 5.50 m ² /pack
Powder 10.91 kg	using 6mm x 6mm
Liquid 4.50 kg	square notch trowel

FLEX White

12.50 kg	Approx. 4.50 m ² /pack
Powder 8.00 kg	using 6mm x 6mm
Liquid 4.50 kg	square notch trowel

ArdiFlex S1



High performance, fibre reinforced, deformable tile/stone adhesive

Description

High polymer modified, off-white coloured adhesive formulated with enhanced properties of slip resistance, flexibility and extended open time necessary for fixing large format tiles and stones on wall/floor in interior/exterior situations.

Standards

Conforms to EN 12004 : 2017 and is a deformable (S1) improved (2) slip resistant (T) cementitious adhesive (C) with extended open time (E) of class C2TES1.

Uses

Fixing large format tiles/stones on :

- Cement & lime renders
- Fibre cement boards, plaster boards, gypsum boards (rigidly fixed)
- Pre-fabricated concrete walls
- Cementitious floor screed
- Existing tiled surface

Benefits

- Fibre reinforced for high performance and strength
- Good slip resistance
- Extended open time
- Bed thickness upto 15mm

Coverage Estimates

Pack size	Coverage
50 kg	Approx. 3.0 kg/m ² @ 6mm x 6mm square notch trowel

ArdiFlex S2



High performance, fibre reinforced, highly deformable tile/stone adhesive

Description

High polymer modified, off-white coloured adhesive specifically formulated to have enhanced properties of slip resistance and deformability necessary for fixing tile and stone on substrates that are subjected to deformation and/or vibrations.

Standards

Conforms to EN 12004 : 2017 and is a highly deformable (S2) improved (2) slip resistant (T) cementitious adhesive (C) with extended open time (E) of class C2TES2.

Uses

Fixing tiles & stones on :

- Deformable substrates or substrates subjected to vibration
- External facades
- Fibre cement boards, plaster boards
- Suspended swimming pools
- Areas exposed to direct sunlight & temperature fluctuations (podiums)

Benefits

- Fibre reinforced
- Highly deformable
- Extended open time
- Bed thickness upto 15mm

Coverage Estimates

Pack size	Coverage
50 kg	Approx. 3.0 kg/m ² @ 6mm x 6mm square notch trowel

S 15 C



Cement based adhesive for use by wet-on-wet method

Description

S 15 C is a polymer modified, high strength, grey cement based adhesive used in slurry consistency for fixing vitrified tiles, ceramic tiles and stable natural stones. It is not suitable for fixing moisture sensitive stones and for vertical applications.

Areas of Application

- Interior & Exterior floors
- Domestic and Commercial floors

Background/Bases

- Fresh Sand/Cement Screed
- Fresh screed modified with 'screed concentrate' (refer A 3 TDS for details)

Benefits

- Good bond strength
- Longer working time compared to cement slurry
- Economical: Suitable for tiling on fresh screed
- Suitable for fixing vitrified tiles, ceramic tiles and stable natural stones

Coverage Estimates

Pack size	Coverage
26 kg	Approx. 3.0 kg/m ² @ 2mm thickness

M 15



Thin bed adhesive for brick/block work

Description

M 15 is a grey, polymer modified adhesive suitable for brick/block work in interior and exterior situations. The adhesive is water resistant.

Benefits

- Polymer modified adhesive
- Easy mixing & application
- Internal and external situation
- Good adhesion between AAC blocks
- No curing required

Pack size

26 kg

Coverage

Depends on the length, height, width of the block along with the required adhesive thickness

CEMENT POLYMER GROUT



Polymer modified grout for wall and floor tile/stone joints

Description

A high quality polymer-modified, water resistant, cement based grout designed for grouting glazed wall tiles, porcelain tiles, mosaic, vitrified & fully vitrified tiles, natural and engineered stones.

Benefits

- Good bond strength
- Water resistant
- For interior & exterior use
- Suitable for joint width of 1 - 6 mm
- Available in range of colours
- Conforms to overall Migration Test specifications as per USFDA - 175.300, certified by CFTRI

Coverage Estimates

Pack size	Coverage
500 g, 1 kg & 10 kg	Consumption depend on joint width, size of tiles

Wet Density: 1.80

SUPER GROUT



High polymer modified, water and stain resistant grout

Description

SUPER GROUT is a high quality, high polymer - modified, high performance grout with excellent water - repellent and efflorescence resistance properties designed for grouting glazed tiles, mosaic, vitrified and fully vitrified tiles, ceramic tiles, industrial tiles, granites, marbles & other natural stones etc. SUPER GROUT has higher strength, water and stain resistance compared to normal cement grout.

Benefits

- High bond strength
- Excellent water repellent property
- Non-shrink
- Better efflorescence and stain resistance
- Suitable for joint width of 1 - 6 mm
- For interior & exterior use
- Available in range of colours

Coverage Estimates

Pack size	Coverage
1 kg	Consumption depends on joint width, size of tiles.

Wet Density: 1.80

WIDE JOINT GROUT



Polymer modified grout for wide joints

Description

High quality, water resistant, cement based grout designed for grouting ceramic floor tiles, mosaics, quarries etc. Not recommended for tiles with metal decor or luster.

Benefits

- Provides high strength and durable joints
- Water resistant
- Water based - easy to be cleaned from tiled surface
- Suitable for joint width of 3 - 12 mm
- For interior & exterior use
- Available in Grey & white

Coverage Estimates

Pack size	Coverage
10 kg	Consumption depend on joint width, size of tiles

Wet Density: 1.90

EPOXY GROUT



Resin based grout

Description

EPOXY GROUT is hygienic, hard-wearing, impervious, 3 component epoxide resin-based grout with a high degree of resistance to chemical attack, abrasion and impact. The cured grout does not transfer taints to food products, prevents the entry of bacteria or dirt and is easily maintained in a sterile condition. EPOXY GROUT is designed for grouting glazed tiles, mosaic, vitrified and fully vitrified tiles, ceramic tiles, industrial tiles, granites, marbles & other natural stones etc.

Benefits

- Hygienic and chemical resistant
- Stain and bacterial resistant
- Provides high strength and durable joints
- Suitable for submerged conditions
- Water based : easy to be cleaned from tiled surface
- Suitable for joint width of 1 - 12 mm
- For interior & exterior use
- Available in range of colours
- Conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with aqueous food products
- Exceeds EN 13888 requirements

Coverage Estimates

Pack size	Coverage
1 kg & 5 kg	Consumption depend on joint width, size of tiles

Wet Density: 1.70

WA D



High performance epoxy grout with SPARKLING effect for walls & floors

Description

WA D is an epoxy grout specially designed to enhance the aesthetics of the tile joint with a 'sparkling' effect. It is available in Gold, Bronze & Silver colours.

WA D is a four component grout with high degree of resistance to chemical attack, abrasion and impact. The cured grout is hygienic, impervious and does not permit the entry of bacteria or dirt.

Uses

Grouting of tiles/stones in areas where 'sparkling' effect is desired, such as

- Restaurants & Hotels
- Showrooms
- Shopping malls & Multiplexes
- Bathrooms

Benefits

Provides 'sparkling' effect to tile joints
High strength and durable joints
Hygienic and chemical resistant
Stain and bacterial resistant
Suitable for joint width of 2 - 20 mm

Coverage estimates

Pack Size	Coverage
1 kg & 5 kg	Consumption depends on joint width and size of tiles

Specific gravity = 1.60

WA G



High performance night glow epoxy grout for walls & floors

Description

WA G has luminous powder from rare earth, which can absorb ultraviolet, lamp light, sunlight and other visible lights in only 15 minutes, then giving out light up to 2 hours. 'Glow in the dark' feature is characterized by their ability to absorb/ store the energy of natural/artificial lights and to emit it in the form of visible light in the dark. Available in Blue Green and Green.

Uses

Grouting of tiles/stones in areas where 'glow in the dark' effect is desired, such as

- Restaurants & Hotels
- Showrooms
- Multiplexes
- Bathrooms

Features

- Glows in dark
- High strength and durable joints
- Hygienic and chemical resistant
- Stain and bacterial resistant
- Suitable for joint width of 2 - 20 mm
- Sterile

Coverage Estimates

Pack Size	Coverage
1 kg & 5 kg	Consumption depends on joint width and size of tiles

Specific gravity = 1.77

A 3



Screed concentrate

Description

A 3 is a screed concentrate made up of high quality additives and superior polymer to produce rapid usable screed for receiving floor coverings such as tiles/stones/ cementitious self levelling compounds/resin coatings/textile floor coverings/parquet flooring.

Uses

- Airport Terminals
- Public spaces
- Shopping Malls
- Universities
- Suitable as an underlay screed for wet on wet application of tiles & natural stones using S 15 C

Benefits

- Early drying compared to traditional cement sand screed
- After 7 days dry, it is ready to receive natural stones, textile floor coverings, parquet flooring and resin coatings.
- Walkable after 8 hours
- No water curing
- It is suitable as binder for screeds according to DIN 18560 and EN 13813

Coverage

1:5 mixing ratio	6.90 m ² @ 20 mm
1:6 mixing ratio	7.70 m ² @ 20 mm
1:8 mixing ratio	9.60 m ² @ 20 mm

Pack Size

500 gms

CL 11



Commercial grade, self-levelling Compound

Description

CL 11 has been especially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc. CL 11 contains high quality special cements and selected fillers so that, when mixed with water, it produces a free flowing mortar with self-levelling properties. The mortar can be applied at a thickness from 3 - 5mm and suitable for internal areas only.

Uses

Levelling and smoothing uneven internal sub-floors such as concrete, cement sand screed, quarry tiles, etc. prior to the installation of resin coatings, carpets, ceramic tiles, vinyl or parquet flooring.

Benefits

- Pumpable: highly fluid for fast installation
- Self-smoothing: produces flat and absorbent surface for subsequent finishes
- Walkable after 3 hours
- Ready to receive floor coverings within 48 hours
- For internal use only: Not suitable for exposed wearing surfaces

Coverage Estimates

Pack size	Coverage
25 kg	Approx. 5 m ² @ 3 mm

CPS 10 E



Epoxy based car park protection system for internal decks

Description

CPS 10 E is a tough, durable, epoxy based car park protection system providing a seamless, wear resistant, profiled surface to intermediate decks of multi-story car parks. The high gloss helps to brighten the car park and provides aesthetical finish by demarcation of different areas.

Uses

- Internal Car Park decks & ramps
- Service centers, garages
- Warehouses
- Loading Bays

Benefits

- Seamless: easily cleanable to maintain high standards of hygiene
- Tough & Hard wearing: durable with low maintenance cost
- Resistant to a wide range of chemicals and liquids
- Provides a high gloss finish
- Anti skid
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Aesthetically attractive: Available in range of colours

CPS 20 ID



Polyurethane based car park protection system for internal decks

Description

CPS 20 ID is a tough, durable, polyurethane car park protection system providing a seamless, wear resistant, profiled surface to intermediate decks of multi-story car parks. CPS 20 ID is available in various colours, providing aesthetics and demarcation of different areas.

Uses

- Internal Car Park decks & ramps
- Service centers, garages
- Warehouses
- Loading Bays

Benefits

- Seamless
- Anti skid
- Hard wearing: extremely durable and abrasion resistant with low maintenance cost
- Resistant to a general and vehicle related chemicals spillages
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Aesthetically attractive: Available in range of colours

* Also available as

CPS 30 ED

Polyurethane based, UV stable, Car Park Protection system for external decks

TOOLS & TACKELS



Thin-Bed
Metal Notch Trowels



Thick-Bed
Metal Notch Trowels



Grout Rake



Spacers
2, 3, 4, 5, 8 & 10 mm



Caulking gun



Injection port



Cutter



Mixing Paddle



Roller



Hand Trowels



Smoother



Levelling rake

VALUED CLIENTILE





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