

# Aqua TECH

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World Class Water  
Proofing Solutions





# Excellence is a preference

At Basco Paints, we believe that construction industry looks for solutions that are innovative, yet durable and reliable. Specifically, with the industry undergoing changes due to rapidly evolving customer preferences and expectations, new age materials bring in a host of tangible efficiencies in terms of both cost and construction quality.

Precisely how our innovative range of products enables efficient use of construction material and builds structures with the essential traits of modernity and sustainability. Our products and solutions are the result of our evolved relationships with architects, contractors, specifiers, suppliers and their customers.

Every aspect of our product is engineered to usher in the ease of application across construction areas. Specifically, our products ensure



Cost efficiencies  
on time and effort



Environmental  
sustainability



Improved material  
performance



Greater reliability  
and durability



## Reflecting the new age

The winds of modernity have ushered in new standards where design creates functional value, materials spawn innovation, smart space management and green benefits by way of sustainable architecture. Needless to say, budgets, longevity and aesthetics have become benchmarks for making decisions on construction material. There is a growing realization that costs of repair and after thoughts are often expensive and many times demand structural changes.

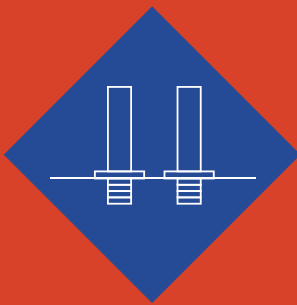
Basco Products carry unique brand names to reflect the essential traits that our stakeholders look for while choosing the right construction chemical.



Waterproofing Solutions



Protective Coatings



Grouts and Anchors



Repair and Restoration



Water Proofing Admixtures



Buildings and Joint Sealants



Industrial Flooring



## Capabilities that spawn innovation

Efficiency and application expertise have been the guiding principles of the global construction chemical industry. For this, we are continuously investing in innovation and new product development and rolling out products that fit into the needs of the industry.

Basco Products are backed by a strong line-up of service capabilities, which translate into better value for our stakeholders and brighter relationships for the future. Our product range includes waterproofing, admixtures, grouts & anchors, repair mortars, bonding agents, adhesives, Industrial flooring & coating, curing & sealing compounds, dry shake hardeners, joint fillers, sealants, densifiers waterproofing, repair and other products.

Manufactured under stringent quality controls by adhering to best global practices, we employ cutting edge technologies. Basco Products manufacturing units are located in Embakasi, Kenya and Kampala, Uganda with a strong delivery backup.



# AquaTech

Waterproofing Solutions



## Waterproofing begins with AquaTech

A well-architected structure needs the right ingredients to take shape of a landmark that stands the test of time for generations. More than withstanding the ravages of climate, the choice of construction chemical material hence becomes a foundational decision for the future of the structure. One of the rudimentary element is water. Safeguarding the structure across all vulnerable areas with new age waterproofing solutions is now possible without a doubt.

Using Basco Products technologically advanced range of waterproofing solutions, contractors can choose the right products based on the area of application and its location in the structure.





# Waterproofing is workmanship

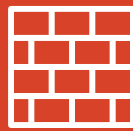
Waterproofing the structure must be a proactive effort towards risk mitigation. This saves contractors from budgetary overruns and loss of reputation. Sound waterproofing is a result of quality construction chemical and expert workmanship. Specifically, every structure is prone to damage due to water across a variety of surfaces.

The susceptibility to water is also a result of factors like temperature, load and traffic .



## Terrace

Constant exposure to temperature results in wear and tear and cracks on the roof surface, leading to water leakage. This shows up as dampness on the ceilings.



## Exterior walls

Temperatures cause cracks in exterior walls, leading to damp patches and therefore tainting the exterior and interior aesthetics of the structure.



## Swimming pool / Water tanks

Swimming pools and water tanks are susceptible to leakages through their surfaces due to the formation of cracks. Therefore, it is critical to waterproof swimming pools and tanks with the right material.



## Basements

Below the ground structures are one of the most critical areas, that constantly faces challenges of rising ground water level, gases etc.



## Podium

Podiums have become the mainstay of new age constructions. Owing to its large span, it faces challenges due to slab movement due to constant vehicular movement.



## Internal wet areas

Areas like bathrooms, kitchens and balconies undergo constant exposure to water across the year causing seepage and peeling of paint on internal walls



# AquaArm 2C

AquaArm 2C is a two-component acrylic-based polymer modified seamless and jointless flexible crack bridging waterproofing product.

## Advantages

 <p>Plant root resistant</p>	 <p>UV resistant</p>	 <p>Resistant to water acids</p>	 <p>Hydraulic setting</p>
 <p>Rapid rain proofing</p>	 <p>Freeze thaw resistant</p>	 <p>Zero VOC</p>	 <p>Portable Water NSF 61 Certified</p>
 <p>Resistant to water pressure</p>	 <p>Hardness shore A scale</p>	 <p>Tensile elongation 60% at 30</p>	 <p>Vapour diffusion resistant</p>
 <p>Crack bridging property</p>	 <p>Protect exposed reinforced concrete from acid gases</p>		



## Terrace waterproofing

Modern day terraces/rooftops are built to be environmentally sustainable and deliver on green benefits. All terraces/roofs have to withstand the test of climate and time as they are the most exposed and are susceptible to damage. A robust terrace waterproofing system should resist leakage during heavy rainfall, withstand expansion contraction of the structure and also help in providing good insulation.

AquaArm 2C is an excellent product with good crack bridging property, high elongation and having excellent bond strength. All these properties are essential for a good waterproofing system of terrace.

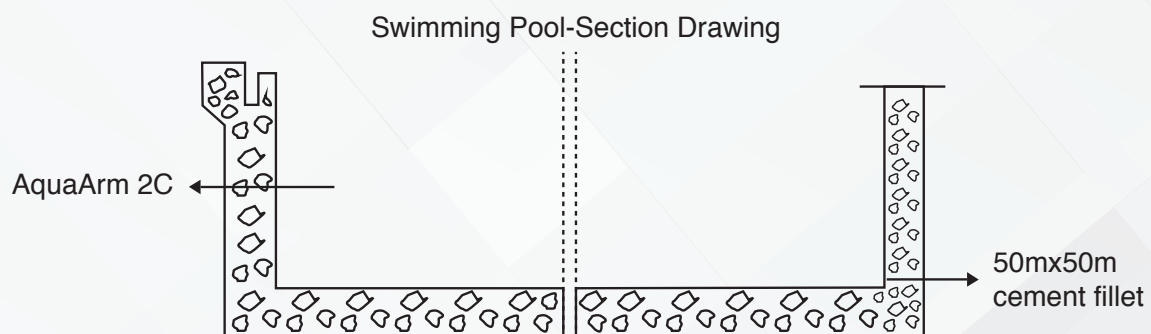


# Swimming Pools

Water exerts enormous Hydrostatic pressure on the walls and floors of a swimming pool. Swimming pools built below ground level have moisture surrounding exterior walls along with the hydrostatic pressure of the water in the pool which compounds the problems of waterproofing and eventually affects the swimming pool both internally and externally. Basco Paints recommended waterproofing system for swimming pools is a two component Flexible Polymer Modified Acrylic Coating, AquaArm 2C.

AquaArm 2C is a fast setting breathable system having excellent crack bridging property. AquaArm 2C has good tensile property and elongation which helps to protect the structure from aggressive water ingress.

AquaArm 2C system is recommended for all types of swimming pools / water bodies. These properties make AquaArm 2C the best suited product for swimming pools / water bodies waterproofing.



# Podium Deck Waterproofing

Contemporary structures / modern day buildings are designed with podiums that have both landscape and hardscape spaces. Podiums typically have areas like walkways, driveways, patios, water bodies & landscape gardens. Podiums are subjected to dynamic loads & climatic exposure hence Basco Paints recommends the best suitable product AquaArm 2C for waterproofing of the Podium.

AquaArm 2C has good bond strength, high tensile strength which will help in ensuring the coating to be intact in the event of any movements / dynamic loads affecting the Podium.

AquaArm 2C has excellent elongation property which is one of the key requirements for podium waterproofing systems.

## Typical areas of usage of podium in modern days building:





# AquaArm Crystalline IC

AquaArm Crystalline IC is a state-of-the-art single component, penetrating crystalline material for waterproofing and protecting new or old structurally sound concrete.

## Uses

- Interior and exterior waterproofing in below grade structures (i.e basement raft and retaining wall, lift pits and foundation)
- Water tanks, waste tanks, STPS, Manholes
- Tunnels

## Advantages



## Basement / Retaining Walls Waterproofing

Underground structures like basement and parking are prone to the invisible ingress of water, which will damage the structure. This is due to proximity to the rising water tables. The signs are first reflected in the form of poor aesthetics, hygiene problems (algae/moss formation) and eventually structural damage.

Basco Paints waterproofing solutions for the basement help withstand the high stress and exposure to water. Our fully-bonded, pre-applied waterproofing system ensures there is no gap between the structural concrete and the waterproofing system. Basco Paints has a vast range of products for waterproofing like Membranes, Admixtures, Acrylic coatings, Crystalline System which can resist both positive and negative water pressure upto 14 bar.





## Retaining Walls Waterproofing

Retaining walls need waterproofing treatments to reduce the build-up of hydrostatic pressure on the wall and to protect it from ground dampness. Waterproofing also protects the wall from the water migrating through the drainage system and seeping into the wall.

Use AquaArm Crystalline IC to waterproof your retaining walls since it penetrates the capillaries deep in concrete and it can also be applied to damp substrates.





# AquaTech Duralastic

AquaTech Duralastic is a Two-component, flexible cementitious mortar for the protection and waterproofing of concrete surfaces, balconies, terraces, bathrooms, and showers. It is based on cementitious binder, fine-grained aggregates, special additives, and acrylic polymer dispersed in water.

## Advantages

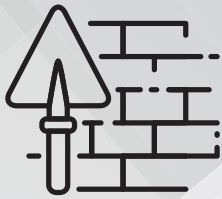


# AquaArm Saniflex

AquaArm Saniflex is a liquid applied, ready to use, synthetic rubber-based polymer dispersion which dries to form a seamless elastomeric waterproofing membrane. The waterproof membrane provides a breathable yet waterproof elastomeric barrier with crack bridging properties.

AquaArm Saniflex is used to waterproof wet rooms such as shower areas, bathrooms, kitchens and sanitary areas in public and private buildings. AquaArm Saniflex is suitable for fast-track job requirements and overcomes the complications associated with intricate waterproofing. Can be used for waterproofing of dry wall/cement particle board.

## Advantages



Easy to apply  
single  
component



Single application  
possible



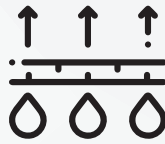
Seamless waterproof  
membrane system



Fast curing



Excellent crack  
bridging  
properties



Breathability



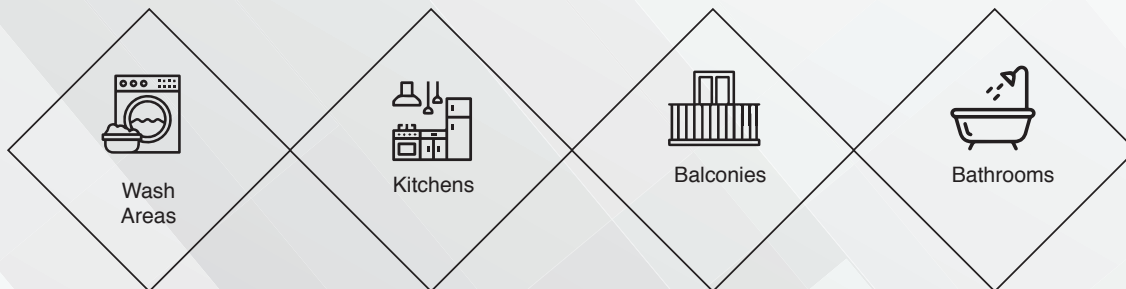
solvent free

# Kitchen / Wash Areas / Bathrooms / Balconies

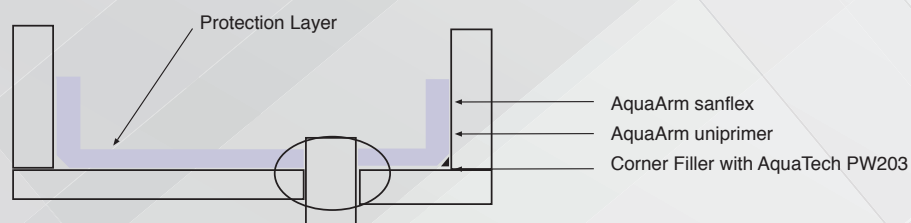
## Waterproofing wet areas

Areas that have direct water supplies like kitchen, wash areas, bathrooms, laundries are susceptible to seepage and external damage to the structure. All these areas are subjected to high levels of moisture due to direct wetting, high humidity and condensation. These areas are extremely critical as they are prone to unhygienic growth of algae or moss and also damage the aesthetics of living spaces if not protected.

AquaTech Duralastic is ideally suited for wet areas as it is designed to protect the structure in constant exposure to water. AquaTech Duralastic is an easy to apply single component product having excellent crack bridging property and it is breathable in nature. All these properties make AquaTech Duralastic the best product for wet areas.



Wet Areas - Section Drawing



# AquaArm UM















Two component polymer modified flexible cementitious waterproofing coating. AquaArm UM is a economic cementitious, polymer dispersion based highly flexible protective coating and waterproof barrier. This product is two-component and resistant to water, moisture and abrasion. Its liquid mixing component is solvent free.

AquaArm UM is a stand-alone product. It can be top or over coated with flexible or rigid mortars, stuccos or coatings for uniform appearance. It bridges shrinkage cracks. Larger cracks, static (Non-moving) or dynamic (moving), can be sealed with SealArmTape2000 or SealArmTape2000S

## Uses

- Exterior waterproofing of old and new buildings
- Waterproofing of water tanks
- Waterproofing systems for high water heads
- Horizontal waterproofing below masonry
- Interior waterproofing against humidity from outside
- Waterproofing of underground basements, precast garages, ducts, areas of high humidity, terraces, balconies, planters and swimming pools
- For fixing of SealArm Joint Tapes
- Waterproofing underneath tiles in wet rooms

## Advantages

 <p>Applied above or below grade</p>	 <p>Elongation &gt; 30%</p>	 <p>Crack bridging up to 1mm</p>	 <p>Exterior (positive side) or interior (negative side)</p>	
 <p>No priming necessary in most cases</p>	 <p>Excellent crack bridging properties</p>	 <p>Breathability</p>	 <p>solvent free</p>	 <p>Self curing</p>
 <p>Resists abrasion</p>	 <p>Stands up to pedestrian and light traffic</p>	 <p>Permanently flexible</p>	 <p>Resists strong hydrostatic pressure</p>	 <p>Active barrier to carbon dioxide (CO<sub>2</sub>)</p>



# AquaArm TG

AquaArm TG is a cementitious, polymer dispersion based flexible protective coating and waterproof barrier. This product is two-component and resistant to water, moisture and abrasion. Its liquid mixing component is solvent free. AquaArm TG is a stand-alone product. It can be top or over coated with flexible or rigid mortars, stuccos or coatings for uniform appearance.

## Uses



Balconies



Toilets/bathrooms



Parapet walls



Roof&Terraces

## Advantages

- Breathable
- Flexible
- Self-Curing

# NILOBIT APP Membrane

It is a plastomeric waterproofing membrane manufactured in an advanced continuous calendaring process by saturating and coating a synthetic carrier with a waterproofing compound made of a special grade of bitumen, which is modified with APP polymers. While the APP polymers enhance the thermal, mechanical, and aging properties of the membranes compound.

## Uses

- Roofing or re-roofing works for sloped and flat protected roofs
- Waterproofing of underground structures
- Waterproofing of wet areas, mechanical rooms and terraces

## Advantages



Tensile Strength



Tear resistance



Puncture Resistance



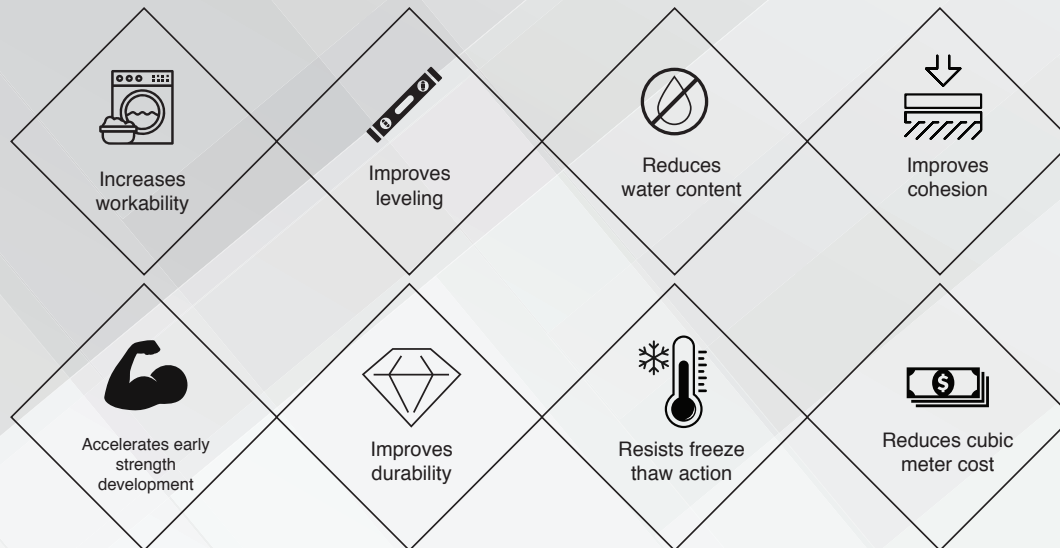
Excellent elongation properties

# Concrete Admixture



## What is Admixture?

Admixtures are chemicals besides cement and pozzolana, added to concrete at the mixing stage to enhance the properties of the mix, such as workability, strength, etc. This helps engineers to meet newer and tougher challenges every day in terms of structural designs.



## Types of Admixture:

Based on their primary effect, admixtures are:

- Water Reducer
- Retarders
- Plasticizers and Super Plasticizers
- Accelerators
- Air Entrainers
- Value-added Products
- PC/PCE based high range water reducer
- Mould Release Agent



# Basco Products Range of Waterproofing AdMixtures

## AquaTech PW 203

Duracoat AquaTech PW 203 is an integral waterproofing powder which is composed of waterproofing additives in powder form, used for waterproofing of cement and concrete plasters.

## AquaTech LQ 202

Duracoat AquaTech LQ 202 is a single component, aqueous, chloride free, integral waterproofing liquid admixture for concrete and mortar to minimize the shrinkage in cracks, permeability and increase the waterproofing properties of concrete and mortar.





## AquaTech PW 203

### Description

Duracoat AquaTech PW 203 is an integral waterproofing powder which is composed of waterproofing additives in powder form, used for waterproofing of cement and concrete plasters.

### Areas of application



Waterproofing roof slabs



Water tanks and screed



External plaster

### Advantages



Reduces water absorption



Compatible with all types and grades of cement



Chloride - free hence no chance of corrosion

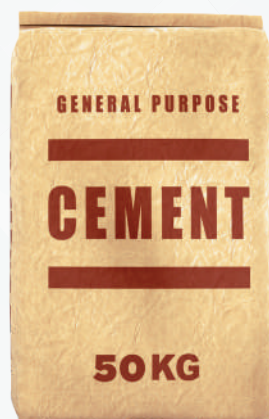


Makes the mix cohesive and denser, reduces permeability

### Consumption



+



Add 500g AquaTech PW 203 for every 50Kg of cement



## Application Method



1. Cement to be mixed with sand in dry state for 1 - 2 min



2. Add AquaTech PW 203 to the dry mix of cement sand as per the mixing ratio



3. Add potable water as per standard water : cement ratio



4. Mix evenly until a homogeneous mix is obtained



5. Place the concrete / mortar with regular practices of water curing

## Packaging

500g Pack

## Health and Safety

Use of gloves is necessary while mixing the product, in case of contact with skin or eyes use plenty of water to wash and seek medical help immediately

## Storage

In a cool dry place

## Shelf Life

24 months from date of manufacturing



## AquaTech LQ 202

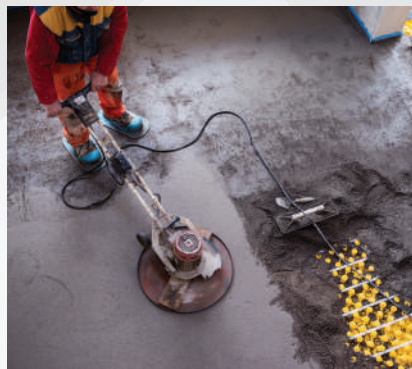
### Description

Duracoat AquaTech LQ 202 a single component, chloride - free, integral waterproofing liquid admixture for concrete and mortar to minimize the shrinkage in cracks, permeability and increase the waterproofing properties of concrete and mortar.

### Areas of application



Waterproofing roof slabs



Water tanks and screed



External plaster

### Advantages



Makes the concrete/plaster water tight or impermeable



Improves workability



Reduces shrinkage cracks



Chloride free hence does not affect reinforcement



Makes the mix cohesive and denser (concrete & mortars)



Compatible with all type of cement



## Application Method



1. As per the mix design, concrete to be mixed in dry state for 1 - 2 min. Add 75 - 80% of the gauging water and mix for 2 - 3 min.



2. AquaTech LQ 202 to be added to the remaining gauging water as per mixing ratio



3. Gauging water mixed with Duracoat AquaTech LQ 202 to be added to concrete and mixed for 2 - 3 min.



4. AquaTech LQ 202 to be added to the remaining gauging water as per mixing ratio

## Packaging

1L & 20L

## Dosage / coverage

125 - 150ml per bag of cement(50kg)

## Precaution

Do not change the dosage because it would affect the setting time

## Health and Safety

Use of gloves is necessary while mixing the product, in case of contact with skin or eyes use plenty of water to wash and seek medical help immediately

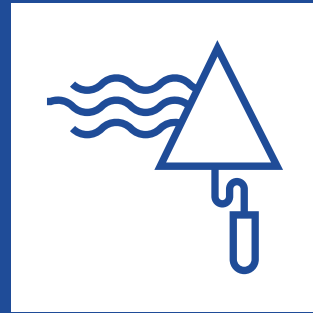
## Storage

In a cool dry place

## Shelf Life

24 months from date of manufacturing

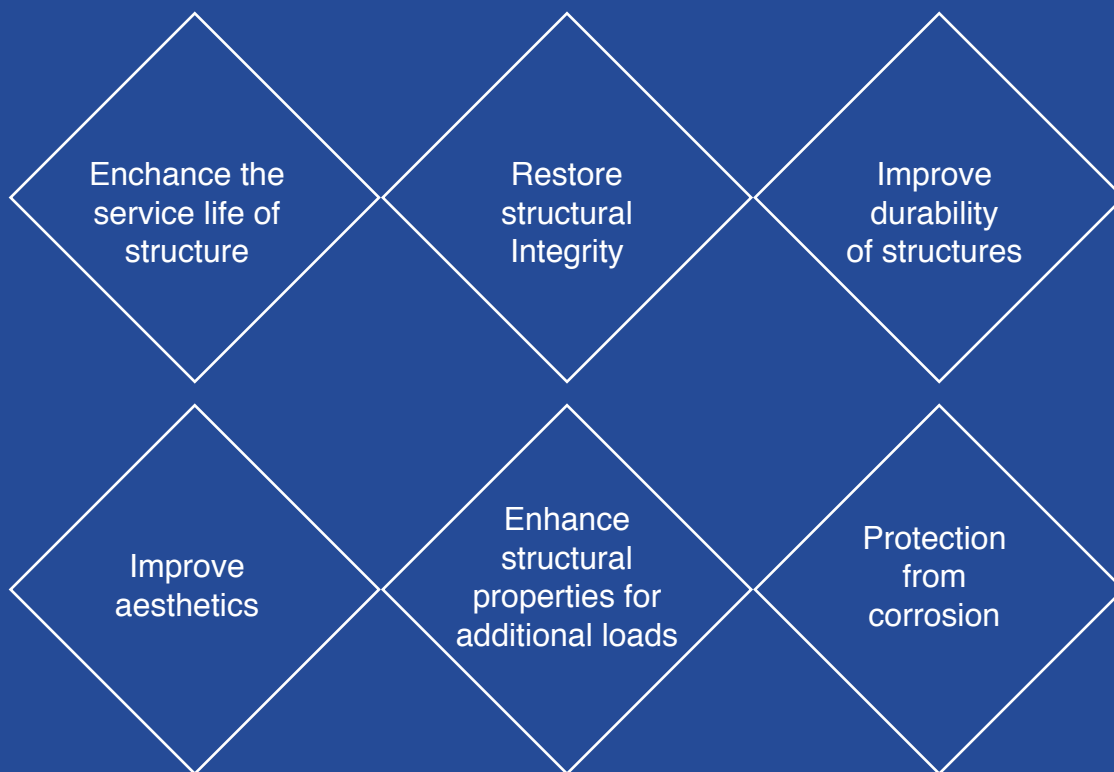
# Repair & Restoration



# Repair and Restoration

Structural integrity of buildings is a cardinal rule in the construction industry. Every concrete structure is designed and built to last a specific timeline. However, owing to a variety of factors, both internal and external, they deteriorate and lose the strength to withstand load and use. Internal factors are the uninformed choice of inferior construction material quality, while the external ones are the ambient conditions like environment, usage and neglect.

Basco Paints believes that concrete structures have to serve the intended time and its life can be prolonged without compromising on the quality it offers. However, repairing and restoring demand a proactive understanding of the areas under deterioration and its bearing on the overall structure's integrity. More so because there are several considerations that warrant repair and restoration and all have to be met sufficiently and effectively.





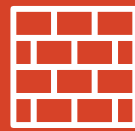
# Common sights of concrete deterioration

Reinforced concrete structures are designed for strength and serviceability but undergo premature distress and damage during their service life. Many factors, external and internal, can be a cause and result in concrete deterioration which can be broadly classified as:



## Mechanical

Overloading or movement of the structure itself results in cracking and gradual erosion of the concrete layers.



## Chemical

Soil contains chlorides and sulphates which are aggressive chemicals. Over time, they weaken the cement's binding ability and the concrete structure.



## Physical

Besides breakage due to external impact, water trapped in the capillaries of concrete freezes and causes expansion resulting in concrete loosening up. Other reasons are abrasion and wear and tear due to traffic.



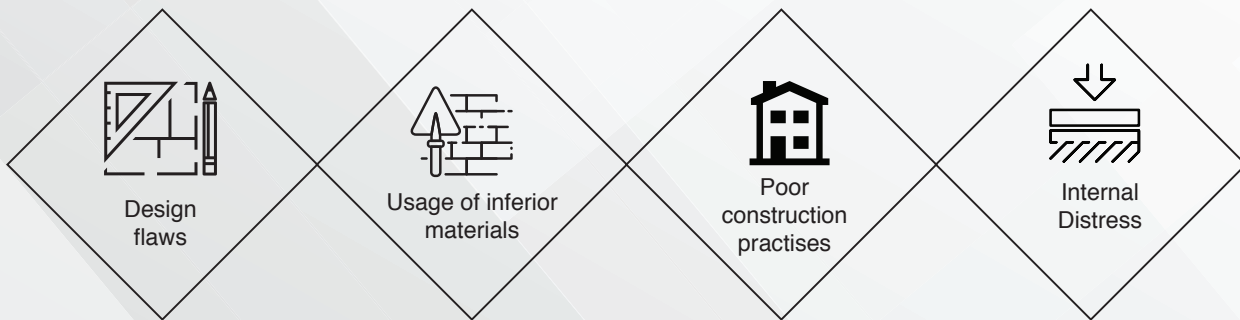
## Natural Calamities

Adverse weather conditions including floods, storms, earthquakes and other geological disturbances can weaken or even permanently damage concrete structures.

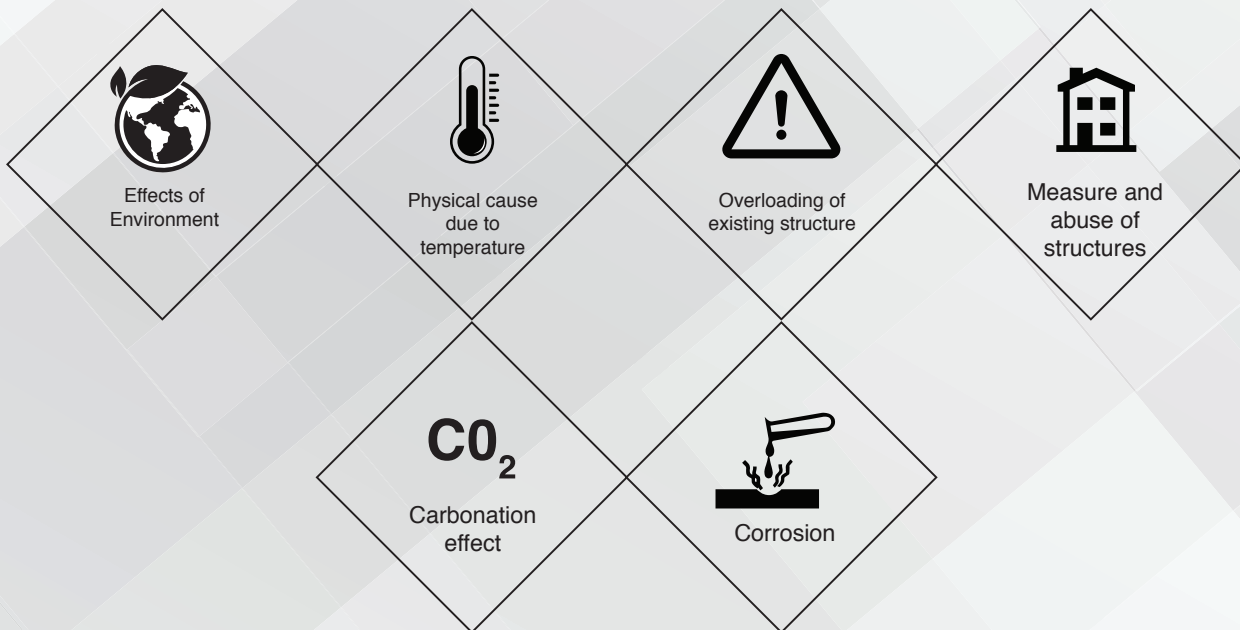
# Matrix of risk factors

A matrix of both internal and external factors contributes to the deterioration and damage of concrete structures. Timely action on repairs helps restore integrity and reset life of the structure.

## Internal Factors



## External Factors





## AquaTech Bond Latex 503

### Description

Duracoat AquaTech Bond Latex 503 is an acrylic polymer based, used as a cement modifier when applied, provides good bond with masonry / cement and thus, improves the tensile and flexural strength properties of the mortar.

### Areas of application



As a preventive waterproofing



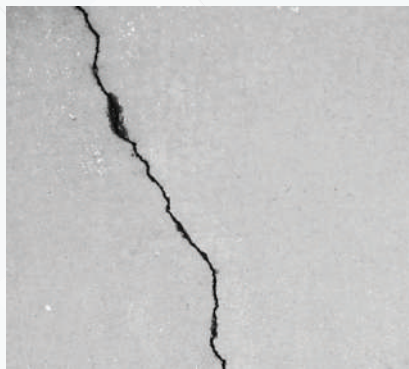
Plaster to plaster



Concrete to concrete



Plaster over brick masonry



To repair plaster cracks



As a coating for prevention of corrosion in rebars mixed with cement



## Advantages



Easy to use



Improves flexural strength



Reduces cracking



Breathable



Bonds strongly to concrete, masonry, plasters, cementitious surfaces



Useful as waterproof coat

## Surface Preparation

- Surface for treatments must be thoroughly cleaned of all laitance, loose material, oils, grease, etc.
- Mechanical means such as wire brushing, shot blasting can be used and finally vacuum cleaned of all loose solids and liquids
- Before application ensure that the surface is damp with water but in a touch dry condition/SSD condition

## AS A BONDING AGENT

- Plaster to plaster
- Concrete to concrete
- For plaster over brick masonry

## Mixing ratio

(Duracoat AquaTech Bond Latex 503 : water : cement) 1:4:7

## Method of application

- Apply a single coat of the mixed quantity of Duracoat AquaTech Bond Latex 503
- When coat is tacky, apply the plaster or concrete according to the situation

## AS A PREVENTIVE WATERPROOFING

In Residential water tanks, balconies, DPC, over sunken slabs in bathrooms

## Mixing ratio

(Duracoat AquaTech Bond Latex 503 : water : cement) 1:4:7

## Method of application

- Brush apply the 1<sup>st</sup> coat
- Apply 2<sup>nd</sup> coat after 1<sup>st</sup> coat is touch dry (allow approximately 4 - 6 hrs between two coats)
- Overlay the 2<sup>nd</sup> coat with screed/plaster for protection which is compulsory

## **AS A WATERPROOF REPAIR PLASTER**

### **Method of Application**

- Mix 1 litre of Duracoat AquaTech Bond Latex 503 with pre-measured water for 50 kg of cement.
- Use this mix to add to the recommended dry plaster mixes
- Plaster mixes may be as rich as 1:3 (cement : sand)
- Keep water : cement ratio in plaster as low as 0.4 but not more than 0.45
- For better application apply a bond coat with Duracoat AquaTech Bond Latex 503 as suggested earlier
- 2<sup>nd</sup> and final layer of plaster must not be mixed with Duracoat AquaTech Bond Latex 503
- Take care to scratch-key the 1<sup>st</sup> coat surface for mechanical key and effective bond with the 2<sup>nd</sup> coat

## **AS A CRACK REPAIR**

- To repair Plaster cracks
- In gaps developed between masonry and RCC members

### **Method of application**

- Mix 1 litre of Duracoat Aqua Tech Bond Latex 503 with pre-measured water for 50 kg of cement
- Use this mix to add to the recommended dry mortar mixes
- Mortar mixes may be as rich as 1:3 (cement : sand)
- Keep water:cement ratio in Mortar as low as 0.4 but not more than 0.45
- Clean the cracked area properly of all loose material
- Wet the crack completely using a bottle spray
- Apply a single coat as a bond coat prior to the crack filling of Duracoat AquaTech Bond Latex 503 as per the mixing proportions mentioned earlier
- Fill the crack with above prepared mortar
- Compact it into the crack fully and trowel finish to level

## **AS A COATING FOR PREVENTION OF CORROSION IN REBARS**

### **Mixing ratio**

(Duracoat AquaTech Bond Latex 503 : water : cement) 1:4:7

### **Method of application**

- Rusted rebars must be thoroughly scraped, by mechanical means if required
- Brush apply a single coat of prepared mix over the rebars
- Apply concrete/mortar when the coat is tacky

### **Packaging**

1L & 5L

### **Dosage / coverage**

1kg of AquaTech Bond Latex 503 will cover 70 - 80 Sq.Ft area in 2 coats for a proportion mix 1:4:7(AquaTech Bond Latex 503 : water : cement)

## Precaution

- Strictly do not dilute beyond recommendation
- To be applied over damp substrate but in a dry to touch state
- Not suggested for use in very critical concrete repairs
- Water proof coats with AquaTech Bond Latex 503 must be protected with screeds/ plasters
- When applying as a bond coat if it becomes dry, re-apply to reach a tacky state for overlay of concrete or mortar
- 2<sup>nd</sup> coat of plaster with AquaTech Bond Latex 503 may cause a problem in external painting of the surface

## Health and Safety

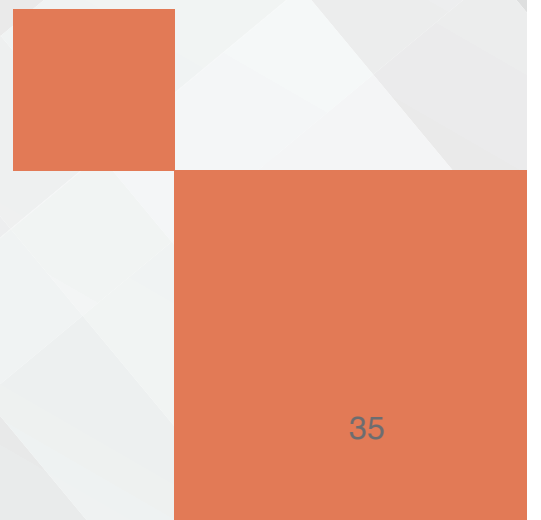
Use of gloves is necessary while mixing the product, in case of contact with skin or eyes use plenty of water to wash and seek medical help immediately.

## Storage

In a cool dry place

## Shelf Life

24 months from date of manufacturing





# Building & Joint Sealants



## Waterproofing Expansion and dilatation joints in sealing layers

SealArm Seal Tape is a product with high elongation and high tear resistance which can be used to waterproof expansion and dilatation joints in sealing layers.



### Water Bars

For the waterproofing of construction joints being subject to ground slope and surface water, permanently or only temporarily. SealArm Swellable Water Bar is a well-developed joining strip which is very economical and safe to use, compared to usual joint sealing methods

# SealArm PU

SealArm PU is a one component, medium-modulus pigmented polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all construction materials. The sealant possesses movement capability of 25% and conforms to BS 6920 for the metallic water soluble impurities and is suitable for use in drinking water system. It meets the test requirements of ASTM C-920, Type S, Grade NS, Class 25.

## Uses

SealArm PU is used as a joint sealant for floor joints in heavy duty areas e.g. industrial areas, breweries, dairies, commercial kitchens, balconies, terraces as well as inbetween concrete elements. It seals expansion and control joints, pre-cast concrete panel joints, window perimeters, steps, risers, roof and tilt wall joint.

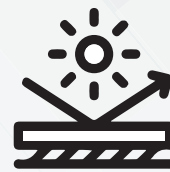
## Features & Benefits



Easy to apply



Single component  
minimises wastage



Light and UV  
stable



# SealArm Water Bar RS 800

SealArm Water bar RS 800 is a well-developed joining strip which is very economic and safe to use, compared to usual joint sealing methods (PVC-joint tape, joint sheets etc.). It is used for the waterproofing of construction joints being subject to ground, slope and surface water, permanently or only temporarily.

## Features and Benefits



Generally approved for use in construction



Swells upon contact with water



No requirement for imperfect edging



Non-absorbent



Cause of defects will be reduced



Swelling process is reversible



Extremely high, form stability, will not become sticky at high temperatures

## Application Instructions

Seal Arm Waterbar RS 800 has to be fixed with assembly adhesive for swelling tapes or by means of assembly bars or assembly grids.

# SealArm Seal Tape

SealArm Seal Tape is a new type of composite material, expandable, tensile, stable, waterproof but allows intrusion of water vapour diffusion pores. It guarantees the fast drying of water-containing tile adhesives and waterproofing layers, it is also highly resistant to aggressive substances.

## Uses

For the waterproofing and dilation of sealing joints in swimming pools, perk decks and soiled earth areas

## Features & Benefits



Composite Material



Particularly Elastic And Tear Resistant



Water Vapour Permeable



Impermeable To Water



Thin Build Up



Uv Stabilised



Temperature Resistant From -22°C - +90°C



Highly Resistant To Aggressive Media



High Elongation



Composite Based



High Tear Resistance

# Adhesive & Sealants







## **Tile Adhesive**

Applying Duracoat Tile Adhesive will prevent many issues such as broken tile, water seepage and forming efflorescent and provide strong bonding strength and long lasting tiling work.

# Duracoat Durabond 201

Duracoat Durabond 201 is a Ultra-Premium high performance flexible cementious, Polymer modified tile adhesive. It contains highest grades of cement, fillers, polymers, and chemical additives to give it unique properties.

## Uses

Duracoat Durabond 201 is suitable for fixing:

- Vertical and Horizontal Tiles
- Ceramic and Mosaic Tiles
- Porcelain Tiles
- Granite Tiles

## Advantage



Excellent workability



High Bond strength



High Quality



Non toxic



Easy to use

## Substrate Preparation

The substrate must be cured, mechanically strong, free from loose particles, grease, oils, paint, wax and sufficiently dry. All surfaces must be as flat as possible.

## Mixing

Add 5 - 6 ltr of clean water to suitable mixing container. Slowly add Duracoat Durabond 201 powder to water and mix until a homogenous lump free paste is achieved. Do not add extra water or other ingredients after mixing.

## Application

Apply Duracoat Durabond 201 at 2 - 3 mm thickness directly to the concrete substrate using a notched trowel and spread the mortar evenly over the area to be tiled.

# Duracoat Durabond 200

**Duracoat Durabond 200 is a premium grade cementious, polymer modified tile adhesive. It contains highest grades of cement, fillers, polymers and chemical additives to give it unique properties.**

## Uses

Duracoat Durabond 200 is suitable for fixing:

- Wall and floor Tiles
- Ceramic and Mosaic Tiles
- Granite Tiles
- Porcelain tiles

## Advantages



Excellent workability



High Bond strength



High Quality



Non toxic



Easy to use

## Technical Data

Finish	Homogenous Paste
Spread Rate	3-4 Sq.mt/Ltr
Colours Available	Grey
Pack Sizes	25Kg
Washability	Easy To Clean

## Surface Preparation

The substrate must be cured, mechanically strong, free from loose particles, grease, oils, paint, wax and sufficiently dry. All surfaces must be as flat as possible

## Mixing

Add 5 - 6 litres of clean water to suitable mixing container. Slowly add Duracoat Durabond 200 powder to the water and mix until a homogenous lump free paste is achieved. Do not add extra water or other ingredients after mixing.

## Application

Apply Duracoat Durabond 200 at 2-3mm thickness directly to the substrate using a notched trowel or spatula and spread the mortar evenly over the area to be tiled



# Duracoat Durabond 100

Duracoat Durabond 100 is a trade grade cementitious, non-shrink general purpose tile adhesive. It contains highest grades of cement, fillers, polymers and chemical additives to give it unique properties.

## Uses

Duracoat Durabond 100 is suitable for fixing:

- Wall and floor Tiles
- Marble and Terrazzo Tiles
- Mosaic Tiles

## Advantages:



Excellent workability



High Bond strength



High Quality



Non toxic



Easy to use

## Technical Data

Finish:	Homogenous Paste
Spread Rate	3-4sq.mt/Ltr
Colours Available	Grey
Pack Sizes	25Kg

## Surface Preparation

The substrate must be cured, mechanically strong, free from loose particles, grease, oils, paint, wax and sufficiently dry All surfaces must be as flat as possible

## Mixing

Add 5 - 6 litres of clean water to suitable mixing container. Slowly add Duracoat Durabond 100 powder to the water and mix until a homogenous lump free paste is achieved. Do not add extra water or other ingredients after mixing.

## Application

Apply Durabond 100 at 2-3mm thickness directly to the substrate using a notched trowel or spatula and spread the mortar evenly over the area to be tiled

# Basco Nguvu Grip

**Basco Nguvu Grip Tile Adhesive is an Economy Grade cementitious non-shrink, general purpose tile adhesive. It contains the highest grades of cement fillers, polymer, and chemical additives to give it unique adhesion property.**

## Recommended For

Basco Nguvu Grip Tile Adhesive is suitable for fixing wall and floor tiles, terrazzo tiles and granite tiles.

## TECHNICAL DATA

Nature	Cementitious Powder
Spread Rate	3-4Sq.Mt/Ltr
Colours Available	Grey
Pack Sizes	25kg

## Surface Preparation:

The substrate must be cured, mechanically strong, free from loose particles, grease, oils, paints, wax and sufficiently dry. All surfaces must be as flat as possible.

## Mixing:

Add 5 - 6 ltrs of clean water to a suitable mixing container. Slowly add Basco Nguvu Grip Tile Adhesive Powder to clean water and mix until a homogenous lump-free paste is achieved. Do not add extra water or other ingredients after mixing.

## Application:

- Apply Basco Nguvu Grip Tile Adhesive 2-3mm thickness directly to the concrete substrate using a notched trowel and spread the mortar evenly over the area to be tiled
- Fix tiles immediately within the open time of 30 minutes.
- Carry out random checks to determine whether the back of the tile is covered with Basco Nguvu Grip Adhesive.
- To ensure that the open time has not lapsed, check if the Basco Nguvu Grip Adhesive Mortar still adheres to your finger in order to avoid bonding failure. If the open time has lapsed, remove the applied adhesive layer and apply a fresh layer to continue further tiling

# Grouts & Anchors





**Grout is used as a filler for the joints between tiles once the tile you are installing has been set. It helps keep dirt and debris from getting in between and under your tile. It adds rigidity and strength to the tile installation and forms a water-resistant seal.**

### **Epoxy based Injection Grout**

**Epoxy Injection Grout consists of a base component containing solvent free epoxide resin plus a low viscosity liquid hardener.**



**Most ideal for repairs and rehabilitation of structures showing hair line cracks**



**To fill up cracks in roof slabs and other areas to make them structurally sound**



**Most ideal for repairs and rehabilitation of structures**

# ArmGrout Inject EP200

**ArmGrout Inject EP200 is a two part epoxy resin system for grouting gaps ranging from 0.3 mm to 10 mm. It is a two part system consisting of a base and hardener.**

## Uses

- This is the most ideal product for repairs and rehabilitation of structures showing hairline cracks
- It is used to fill up cracks in roof slabs and other areas to make them structurally sound

## Application Methodology

### Application Instructions

Prepare the surface and seal the cracks with a sealing compound which can also be used for bonding injection nipples. Depending on the crack width and depth the distance between nipples should be 200 to 500mm.

### Mixing and Placing

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer for 60 seconds. Use a suitable pressure pump for injecting the material into cracks. The low Viscous Epoxy injection system is to be injected well before the pot life. After 24 hours remove the nipples and seal the holes or voids with more sealing compound and allow curing.

### Consumption

Approx. 1.06Kg of material is required for filling up of 1000CC (depending on the porosity of the substrate)



# ArmGrout Polyurethane Based Injection Grout

ArmGrout Polyurethane grouting or injection, is a waterproofing technique that uses expanding injected polyurethane to prevent water flowing through and voids or cracks typically in concrete



For waterproofing of Car Parks







**For Concrete Tanks**



**For Tunnel Linings & Construction Joints**



**For the injection of water bearing cracks and joints in concrete and stone.**



**For stoppage of water inflows from cracks, joints, etc.**

# ArmGrout Inject PU 1

ArmGrout Inject PU1 resin is a solvent free polyurethane injection material which is used in conjunction with ArmGrout Inject PU1 catalyst. ArmGrout Inject PU1 foams with water contact by high increase in volume and becomes firm visco elastic foam, which seals temporarily against further water penetration.

## Uses

ArmGrout Inject PU1 is used for the injection of water bearing cracks and joints in concrete and stone.

ArmGrout Inject PU1 is used for

- Stoppage of water inflows from cracks, joints etc.
- Compacting of loose stones

## Features and Benefits



Easy to use



Very high foam volume



Rapid, visco plastic and solid foam formation



For the temporary filling of cracks



Resistant to a range of acids



Compatible with bitumen

# ArmGrout Inject PU 4

ArmGrout Inject PU 4 is a solvent-free thin liquid, two - component polyurethane resin. ArmGrout Inject PU 4 is slow reacting and hardens to a non-foaming, non-rigid, pore free material which slightly foams when put into contact with water.

The product bonds to a dry, moist surface and offers an excellent adhesion and tears resistance and has a low glass transition temperature and resists to winter temperatures without causing embrittlement and widening of cracks due to low temperatures without tearing.

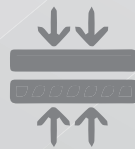
## Uses

- ArmGrout Inject PU 4 is used for the close, waterproofing and elastic connections of cracks, joints and cavities in construction made of concrete, natural stone or bricks.
- ArmGrout Inject PU 4 is suitable for the waterproofing of car parks, concrete tanks, tunnel linings, construction joints, furthermore, for the waterproofing injection using injection hoses

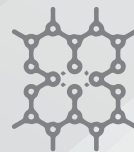
## Features & Benefits



Non Foaming



Excellent Adhesion



Bonds to every dry surface



Permanently elastic



No shrinkage



Chemically resistant



# ReArm Fix 10S

ReArm Fix 10S is a chloride free quick setting cement after addition of water its sets instantly and useful for plugging purpose.

## Uses



Sealing of burst pipes



Water Leaks



Manholes



Tunnels

## Advantages

Instant arrest of the leakage area

## ArmGrout Cementitious Grout

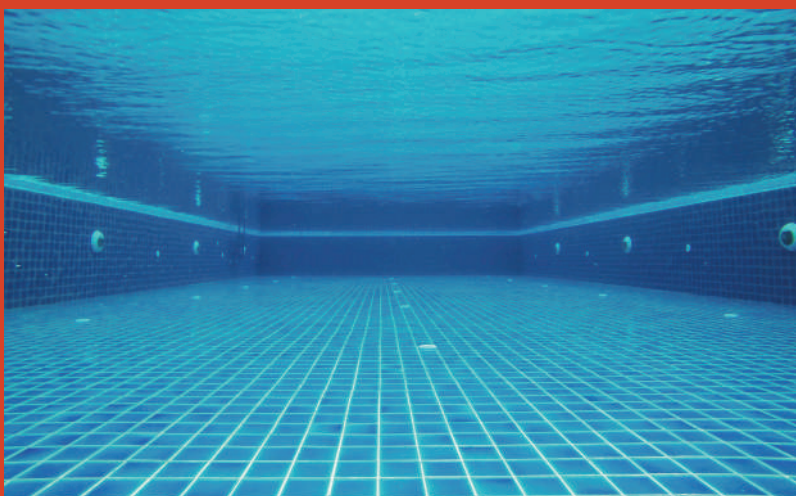
ArmGrout Cementitious Grouting is a process in which a fluid cementitious grout is pumped under pressure to fill forms, voids, and cracks. Cementitious grouting is also used to bond and protect rock anchors in concrete or rock.



For Kitchen Tiles



For Bathroom Tiles



For Swimming Pool Tiles



# Duracoat Tile Grout



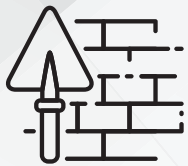
Duracoat Tile Grout is a cement based fine powder filler for tile joints. It contains special binder, waterproofing additive, Efflorescence reducing additive and inert aggregates. It is supplied in three standard colors.

## Uses

Duracoat Tile Grout is a waterproofing grout suitable for filling tile joints in:

- Kitchens
- Bathrooms
- Swimming pool
- And similar applications

## Advantages



Excellent workability



High Bond strength



suitable for indoor and outdoor application



Non toxic



Mold resistant

## Specifications

Nature	Cementitious Powder
Colour	White, Beige & Gray
Coverage	Depends upon type, size and gap between the tiles but approximately 0.25 Kg/Mtr <sup>2</sup>

## Mixing:

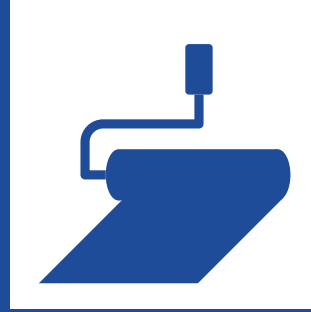
- Add 0.75 - 1 Ltr of clean water to suitable mixing container.
- Slowly add 3 Kg of Duracoat Tile Grout to water and mix until a homogenous lump free paste is achieved
- Do not add extra water or other ingredients after mixing. In case of 5 Kg bag add 1.25 - 1.5 Ltr of water and for 10 Kg bag add 2.5 - 3 Ltr of water

## Application:

- Apply Duracoat Tile Grout to the gap between tiles using a sponge or a piece of cloth. Work the paste into the joints and around the edges
- Remove excess grout from the face of the tile using dry cloth
- When the grout is completed, polish tiles with dry cloth



# Flooring & Coating

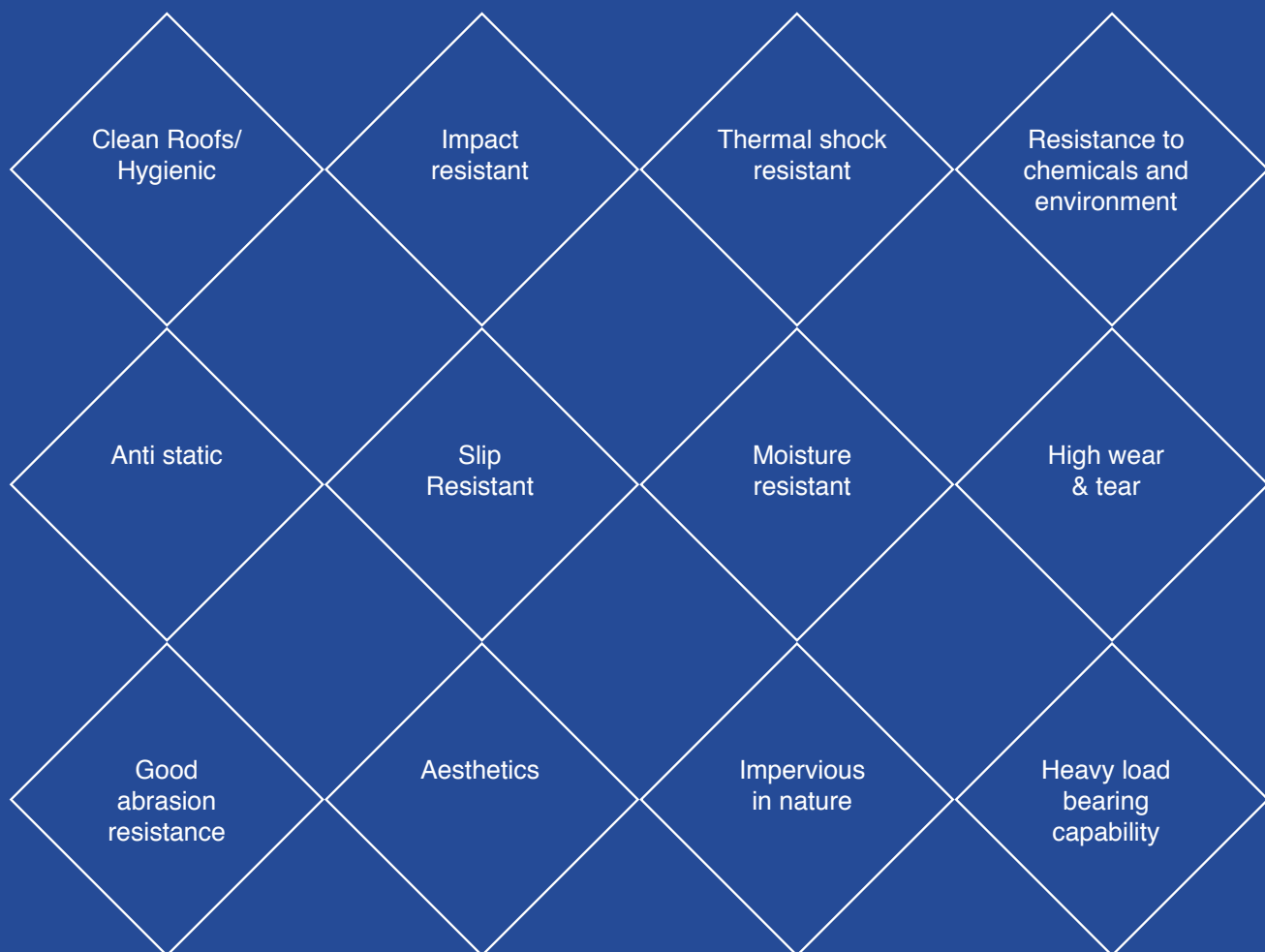


# Flooring and Coatings

Be it quality of life or productivity at work, floors form the base on which every activity happens. Unarguably, floors are high visibility areas and hence have a huge bearing on the maintenance cost and longevity of the structure. Efficiency, safety and hygiene have to be factored in before choosing the right material for floors. More importantly for industrial flooring, today's advanced nature of production methods and practices require a proactive consideration.

Basco Paints range of products and solutions for flooring and coatings are industry-specific, which means no guesswork or cutting corners when it comes to quality and durability of the structure. Our teams collaborate and work at every stage of construction, understand nature of activity and environment, help with technical advice and the correct product for flooring.

While every floor is made of concrete, it has to meet key requirements to lend efficiency, durability and longevity of the structure. Often, floors endure heavy use and abuse which impact everything that happens on it. Inadequate understanding of floor usage and poorly installed material leads to damage compounding into hygiene and aesthetic issues. These often demand repairs and redesigning, which again attracts cost.



## Industry Specific Applications

Specifically, some of the floor areas that are critical in many industries are work floors, car parks, warehouses, laundry facilities, factory floors etc. Broadly, our products and solutions are designed for the following industries.



Hospital



Warehousing



Commercial Buildings



General engineering



Pharmaceuticals



Food & Beverages



Car Park system



# Ensuring Endurance And Longevity

Duracoat range of products and solutions for floors cover every nook and corner of structure without compromising on the quality and expectations of clients.



Our collaborative and consultative nature of work enables our experts to zero-in on the right product and solution to eliminate exorbitant afterthoughts. This helps clients to exercise tighter budgetary control and command greater value for their construction expertise.

Moreover we also have products that address specific issues such as oil/grease contamination on floors, broken dusty floors, next day usage etc.



## Duracoat Floseal SL

Duracoat Floseal SL is a self-Leveling Epoxy floor coating system for protection of concrete floors where a smooth, seamless, dense, impervious finish with good stain resistance is required. Duracoat Floseal SL is formulated for ease of maintenance, superior impact resistance and toughness. It can be applied at various thicknesses from 2 mm to 6 mm.

### Typical Uses

- Food and beverage processing facilities
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Hospitals
- Restrooms

### Features and Benefits



High Gloss



Easy to clean



Excellent adhesion  
and wear resistance



Chemical  
Resistance



Long lasting  
protection



Excellent impact  
resistance

### Recommended Substrate Condition

- Concrete must have sufficient profile to achieve satisfactory adhesion of primer and top coat
- Concrete must be in sound condition and free of laitance, dust, oil and other contaminants. Remove laitance preferably by using Diamond grinding machine with vacuum sucking off the dust
- New concrete must cure minimum of 28 days prior to application of any coatings.
- Weak, cracked, broken sections in the concrete floor, pinholes and other surface defects must be repaired using Duracoat Epoxy Filler
- Apply one coat of Duracoat Floprime Sealer before applying Duracoat Floseal SL

## Mixing

Add hardener to base and mix slowly for 90 seconds. Immediately add aggregate and mix slowly for another 90 seconds. Do not mix at a high speed, as air entrainment will occur. Duracoat Floseal SL is ready for use immediately after mixing base, hardener and aggregate; no induction time is required. Do not mix more material that can be applied within the pot life. Material which has begun to set cannot be used and must be discarded.

## Pot Life

After mixing, Duracoat Floseal SL will have a working time of approximately 20 mins at 21°C. The working time will vary depending upon temperature.

## Application Procedure

Pour the mixed Duracoat Floseal SL onto the floor in a bead. Distribute the material using the appropriate notched trowel pertaining to the desired finished thickness. Roll with a spike roller to aid air release and to improve appearance.





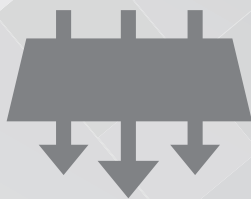
## Duracoat Floseal SF100

Duracoat Floseal SF100 is a single component floor coating based on new hybrid binder technology which can be easily cleaned and has good scratch resistance, high hardness and high abrasion resistance. It provides a medium gloss surface that is hard wearing and durable. It has an excellent wear and tear resistance and suitable for medium duty industrial and decorative flooring.

### Typical Application

- Factories
- Warehouses
- Shopping centers
- Workshops
- Schools and hospitals
- Pharmaceuticals and food industries
- Laboratories
- Car park flooring

### Features & Benefits



Deep penetration



Provides substrate strengthening



Fast curing



Excellent stain resistance



increased abrasion resistance



Easy to apply

## Duracoat Floseal SF 500



Duracoat Floseal SF 500 is a two component, solvent - free epoxy floor coating which can be easily cleaned and has high surface hardness, mechanical and chemical resistances. It provides a medium gloss, seamless surface that is hard wearing and durable.

It has an excellent wear and tear resistance and suitable for medium to heavy duty industrial and decorative flooring. It has great resistance to chemicals, acids and solvents. The coating can also be applied to provide a non - slip texture and may be top coated if required.

### Typical Application

- Factories
- Warehouses
- Shopping centers
- Workshops
- Aircraft hangars
- Schools and hospitals
- Pharmaceuticals and food industries
- Laboratories
- Car park flooring
- Areas where heavy forklifts and corrosive chemicals are of concern

### Features & Benefits



High Chemical resistance



Compressive strength



Excellent tensile strength



Easy to clean



Corrosion resistant



Excellent long term protection

## Recommended system

### Concrete Floor

- Floprime primer – 1 coat
- Floseal SF50 – 2 coats

### Car Park Flooring

- Floprime primer – 1 coat
- Floseal SF500 – 1 coat
- Anti Slip Grit – High quality of quartz sand of 0.2 - 0.6 mm size
- Floseal SF500 1 – 2 coats

### Surface Preparation

- Concrete surface to be laid must be flat and roughened and cured for 28 days
- Remove laitance preferably by using Blast tracking machine or diamond grinding machine with vacuum sucking off the dust
- Weak, cracked, broken sections in the concrete floor must be repaired using Duracoat Epoxy Filler

### Application Procedure

- Add component B into component A and stir the mixture for a period of 3 minutes using a low speed (300-400 rpm) electric mixture until the mixture becomes homogenous
- Avoid stirring more than necessary in order to minimize entrapped air inside the mixture.
- Apply Duracoat Floseal SF 500 on to floor primed with Duracoat Floprime Primer with roller
- Apply anti slip grit of 0.2 – 0.6 mm size at the rate of 0.8 to 1.2 Kg/Mtr<sup>2</sup> immediately after applying the basecoat. After 24 hours curing, sweep off the excess grit.
- Apply Duracoat Floseal SF 500 top coat



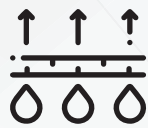
# FloHard P100

FloHard P100 is a ready to use Non Metallic floor and surface hardener, it is a factory blended powder containing special hard wearing aggregates. FloHard P100 is a blend of port land cement and special additives which produces material easy to trowel into fresh wet concrete. FloHard P100 provides a dense non-porous surface which is extremely hard wearing and abrasion resistant. It can be applied for wet rooms as well as outdoor applications.

## Uses

- Loading and unloading bays
- Machine shops
- Packing areas
- Storage area
- Work shops

## Advantages



Instant arrest of the leakage area



Non-Metallic  
Does not rust



Easy to trowel



Reduces Surface wear



Extend the life of the flooring



Abrasion resistance



Monolithic bond



Facilitates easy cleaning



The surface density is high



Economical



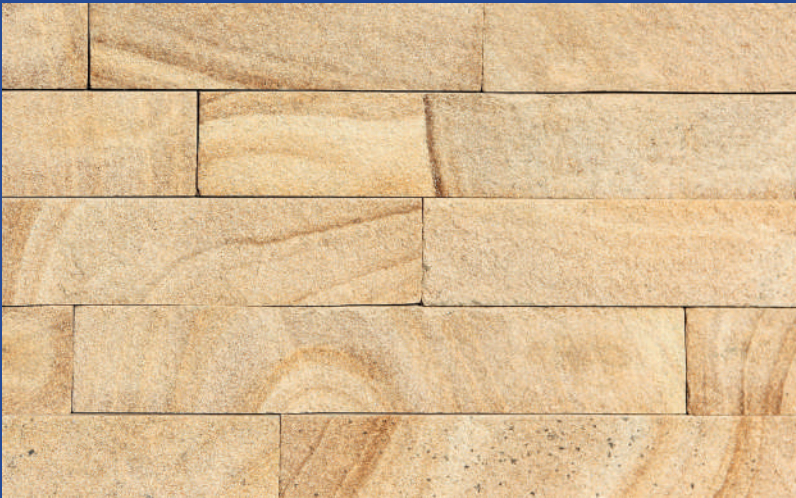
Suitable for repairs of old floors`

# Protective Coating





**Protective Coating for Bricks**



**Protective Coating for Natural Sandstone**



**Protective Coating for Mineral Plasters**



# Duracoat Clearsil

## Product Description

Duracoat clearsil is an excellent water repellent agent for many absorbent mineral substrates, such as bricks, sand-lime brick, natural sandstone and mineral plasters. Duracoat Clearsil reduces the capillary absorption of the building which it has penetrated, but does not clog pores or capillaries. There is therefore little or no impairment of the building material's ability to "breathe".

## Features & Benefits



Water based



Ideal for interior and exterior walls



Protects from wear and tear caused by atmospheric agents



Deeply penetrates the material



Highly Durable



Tack Free drying








Provides good adhesion for paints



Long lasting

**Head Office: North Airport Road, Embakasi,  
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Helpline No: 0800 221 331**

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701-471447  
732-416319 / 770-278557

**KAKAMEGA**

Old Standard Chartered Bank Building  
Junction  
Opposite Bank of Baroda  
P.O. Box 2705-50100  
Kakamega  
Tel: (0708) 333555 / (0708) 333222 /  
(0780) 884607

**KISII**

Kisii Paint Centre  
P.O. Box 2561-4200  
Along Kisii-Kisumu Highway,  
Next to Cooperative Bank  
Kisii, Kenya  
Tel: (0705) 136740/ (0705) 136724

**KISUMU**

Nyanza Paint Centre  
P.O. Box 1072-40100  
Kisumu, Kenya  
Tel: (057)2025621/622,  
(0732) 800030 / (0724) 256671

**MACHAKOS**

**MACHAKOS PAINT CENTRE**  
Industrial road, Machakos town  
(road right behind National Cereals  
and Produce Board / KBL depot)  
P.O. Box 34424-00100  
Nairobi, Kenya  
Tel: (0715) 913 442, (0780) 440381/2

**MERU**

Mt. Kenya Paint Centre  
P.O. Box 38-60200  
Meru, Kenya  
Tel: (064) 30874/30791, (0724) 253379  
(0736) 256255

**MOMBASA**

Coastal Paint Centre  
P.O. Box 99204-80107  
Mombasa, Kenya  
Tel: (041) 2311266 / 2311347,  
(0733) 975571 / (0703) 744644

**NAKURU**

Rift Valley Paints Centre  
P.O. Box 4386-20100  
Nakuru, Kenya  
Tel: (051) 2212166, (0703)  
744622 / (0737) 981767

**NYERI**

Aberdares Paint Centre  
P.O Box 2104-10100  
Nyeri, Kenya  
Tel: (0719) 810211 / (0780) 442245 / (0780)  
442247

**GARISSA**

North Eastern Paint Centre  
Kismayu road opposite taxes energy  
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Nairobi, Kenya.

