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ISO 9001 CERTIFIED COMPANY

PRODUCT CATALOGUE

WATERPROOFING

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COMPLETE RANGE OF WATER PROOFING PRODUCTS & SOLUTIONS

Products we offer for effective water proofing

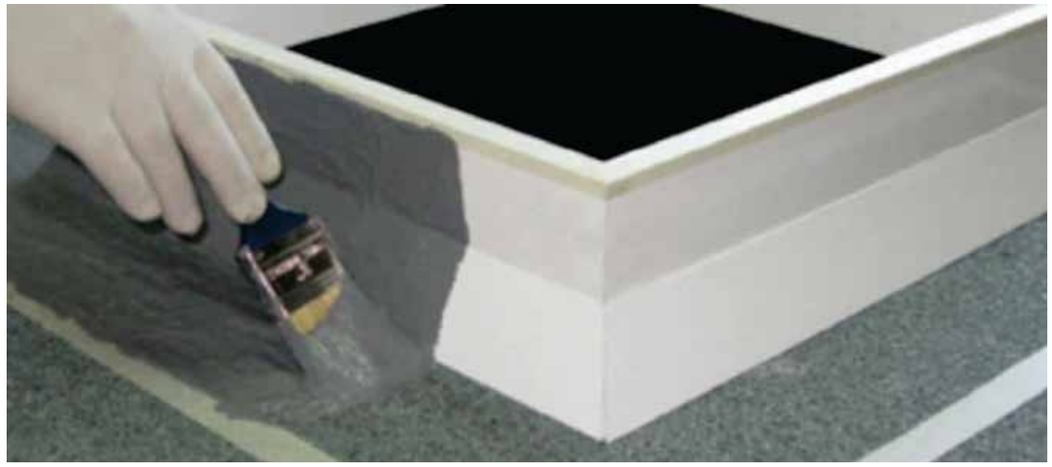
- **DECK CRETE**
  Crystalline penetration & surface sealing system
- **DECK ELASTIC**
  Cementitious elastomeric membrane system
- **DECK PU-2K**
  Solvent Free Polyurethane Waterproofing System
- **DECK ADMIX**
  A high performance waterproofing admixture
- **DECK PROOF**
  High build, flexible acrylic membrane system
- **DECK ELASTIC M**
  Reinforced cementitious elastomeric membrane system
- **DECK PU-1K**
  Single component, moisture cure polyurethane system
- **DECK POLYUREA FFP**
  Brush applied, hybrid polyurea membrane system
- **DECK HDPE 800**
  Preapplied selfadhered HDPE sheet
- **DECK MICRO CONCRETE**
  High Strength Repair Mortar

PRODUCTS TO KEEP STRUCTURES SAFE & SECURE

- **DECK GROUT EPSL**
  Epoxy Resin based Self Levelling Grout
- **DECK PRIME EP**
  High performance Epoxy Primer
- **DECK PLUG**
  Fast Setting Cementitious Plugging Compound
- **DECK FLEX**
  Emulsion based admixture for enhancing the binding properties of mineral cement
- **DECK MORTAR**
  High Performance Readymix plaster based on premium quality riversand
- **DECK PLAST DM**
  Liquid integral water reducing waterproofing admixture
- **DECK CRS REPAIR**
  Polymer Modified Concrete Repair Mortar
- **SEALSTRONG**
  Semi Rigid Polyurea Sealant
- **DECK SRM**
  Polymer Modified High Strength Repair Mortar

DECK CRETE

Waterproofing by Crystalline Penetration & Surface Sealing System



Introduction

Deck Crete is a single component brush applied coating system for concrete, brickwork and other cement bound surfaces. The system works on the principles of waterproofing by crystallization and becomes an integral part of the substrate on which it is applied. The product penetrates through the capillaries of the concrete by osmosis and reacts with soluble deposits in capillaries to form insoluble crystals that completely block the capillaries. Deck Crete works in presence of moisture, thus the crystallization process continues to seal and reseal capillaries in the concrete.

Application Area

The system provides wide range of application for concrete & brick masonry structures and is most suitable for underground structures viz retaining walls, basements, water tanks, floor underlay that are prone to dampness and attacks from moss & fungus. It is best suitable for terraces as undercoats followed by screeds, plasters or coba.

Key Features

- Makes the surface hydrophobic, impermeable to water or dampness and resist efflorescence.
- The mixed material is thixotropic and can be applied on vertical and inclined surfaces.
- It has excellent bonding with concrete surface and becomes an integral part of it.
- The product is resistant to alkali and UV rays.
- It is nontoxic and noncombustible.
- It retains the breathing properties of concrete.

Technical Data

Appearance		Grey powder
Bulk density		1600-1800 Kg/m3
Mixing ratio	Deck Crete	30 Kg
	Water	15 Kg
Pot life		45 min
Consumption (in 2-3 coats)		2-3 Kg/sq.m.
Impermeability to water (EN 14891 A. 6.3 in mm)		No water penetration at 1.5 bar for 7 days

safe waterproofing

quickly rainproof

DECK CRETE

Waterproofing by Crystalline Penetration & Surface Sealing System

Application Procedure

Surface Preparation

1. The surface of concrete on which the system is to be done should be structurally sound, absolutely clean, free from all loose materials, laitance, grease, oil etc.
2. Ensure that the surface is well prepared using wire brush, grinders, blowers, vacuum cleaners etc (as the case may be).

Mixing

1. Take clean potable water in a mortar pan or open drum and then add Deckcrete powder slowly followed by continuous stirring. 400 RPM or a slow speed stirrer is most preferred to ensure correct and uniform homogeneous mixing resulting into a brushable consistency slurry.

Application

1. Make sure the surface is slightly moistened but not wet. Apply the prepared mix using brush and allow it to cure for 24 hours before next coat.
2. Apply two/three coats such that the brush movement direction for any two consecutive coats is perpendicular to each other.
3. During application, the surface should be protected from direct sunlight, heavy wind & rains.
4. Cure the system by sprinkling water for 3 to 7 days depending upon ambient temperature.

Packaging

30 kg bags

Storage

Deck Crete must be stored in unopened bags in cool and dry conditions. It must be protected from exposure to moisture or water. Shelf life is 6 months from the date of manufacturing.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach.

Product Disclaimer

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DECK ELASTIC-M

Reinforced Cementitious Elastomeric Membrane System for Waterproofing

Introduction

Deck Elastic M is a two component elastomeric cementitious waterproofing & protection system. It is a polymer modified hydraulically setting slurry, which forms an elastomeric watertight membrane on drying. Being a cement based system it has a wide range of application viz Terraces, Toilets, Swimming pools, Water tanks, Basements, Podiums etc. DECK ELASTIC M produces a seamless elastic film on hardening and provides adequate abrasion resistance for foot traffic. Being elastomeric it provides excellent flexibility and crack bridging ability. DECK ELASTIC M is reinforced with a fiberglass mesh to impart additional tensile strength. The product is supplied as a two component system viz Deck Elastic Powder M (Part A) and Deck Elastic Liquid (Polymer Component) (Part B) To impart high tear resistance with adequate flexibility, the fiberglass mesh 'DECK NET' is used as sandwich reinforcement layer in between the multicoat system of DECK ELASTIC M. DECK NET is fiber glass net of 4mm to 5mm square netting. It is used as a sandwich reinforcement for Deck Elastic M application especially at corner junctions of concrete, or concrete and brick, or brick and brick and construction joints in concrete.

Application Area

- Waterproofing of water retaining structures, tanks, large size terraces, balconies, bathrooms, swimming pools etc.
- Restoration and protection of cementitious mortar surfaces form weathering.
- Protection of concrete surface from saline water, sulphate, etc.

Key Features

- Water borne system – no harmful volatile content emission – can be easily applied in closed areas like bathroom, toilets etc.
- High build membrane – mistakes in application can be easily detected
- Ultra high toughness
- Stable against UV exposure and hydrolysis
- Maintains flexibility even at low temperatures

Technical Data

Form	Powder	Grey
	Liquid	Milky White
Mixing ratio		Powder:Liquid :: 3:1
Mix consistency		Smooth paste
Pot life		45 mins @ 25 deg C
Cure time		3 days
Bond strength		>1.5 N/mm2
Tensile strength		>10 N/mm2

DECK ELASTIC-M

Reinforced Cementitious Elastomeric Membrane System for Waterproofing

Application Procedure

Surface Preparation

1. The surface of concrete, brickbat or plaster on which the membrane is to be applied must be structurally sound, free from oil, loose materials, laitance, grease etc.
2. Ensure that the surface is well prepared by using wire brush, grinders, blowers, vacuum cleaners etc. (as the case may be).
3. Cracks, honey combs, pot holes, damaged concrete surfaces and construction joints must be repaired with suitable repair materials.

Mixing

4. To ease the proportionate mixing, Deck Elastic M is packed and supplied in such a manner that mixing ratio Powder:Liquid = 3:1 shall be maintained at site.
5. Take a clean bucket and pour the Part B (Liquid component) and add Part A (Powder component) in small increments. While adding Powder Component mixing shall be done with slow speed helical stirrer (400 RPM or lower). Keep mixing until you get homogeneous paste free of lumps. It generally takes 5-6 minutes to obtain the desired paste consistency.

Application

6. This ready mix shall be applied within 45 minutes of preparation. This mix shall be applied in uniform thickness with flat trowel. The first coat shall be cured for 4-5 hours and after which the second and thirt coat shall be applied wet on wet in same manner. DECK NET shall be embedded between second and third coat. Let these coats cure for next 4-5 hours then the finishing fourth coat shall be applied on it.
7. Ensure that the previous coat is well dried before the application of next coat.
8. To achieve good cured membrane properties, Deck Elastic M should be applied in layers. The consumption for first and fourth coat is approx 1.0 kg/m² while second and third coat will consume approx 2 Kg/m² depending upon the base surface. The total consumption would be 3.5 to 4.0 kg/m²
9. Deck Elastic M should be applied within the temperature range of 5° C to 35° C.
10. The surfaces should be protected from direct sunlight, heavy wind & rains during application process.
11. The system is self curing and no other curing is required.
12. Light foot traffic can be allowed on it with precautions such that pointed objects, dragging equipment or any such act which may puncture it is avoided.

Packaging

Deck Elastic Powder M – 30 Kg bag

Deck Elastic Liquid – 10 Kg can

Deck Net – 50 m x 1 m roll

Storage

Deck Elastic Powder M must be stored in the original sealed packaging under cool and dry conditions. Shelf life is 6 months from the date of manufacturing. Deck Elastic Liquid should be stored at room temperature in sealed container. Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is 6 months from the date of manufacture.

Health and Safety

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DECK ELASTIC

Cementitious Waterproofing Membrane System for Waterproofing

Introduction

Deck Elastic is two component acrylic polymer modified cement based waterproofing and protection system. It is a polymer modified hydraulically setting slurry which forms an elastomeric, water tight membrane on drying.

Being a cement based waterproofing system, it has wide range of application area like bathroom, balconies, terrace, podium, water tank etc. Deck Elastic produces a seamless elastic membrane on hardening and provides adequate abrasion resistance for foot traffic.

COVERAGE

2.5 - 3 Kg/ Sq.m. in 2-3 coats. The consumption will increase with increase in surface undulations.

PHYSICAL PROPERTIES

	Powder	Liquid
Form	Coarse Powder	Thin liquid
Colour	Grey	White
Solid content	100%	100%
Density	1.4 Kg/ Liter	1.0 Kg/ Liter

safe waterproofing

quickly rainproof

ideal for waterproofing details

Application Area

• Waterproofing of water retaining structures, tanks, large size terraces, balconies, bathrooms, swimming pools etc.

• Restoration and protection of cementitious mortar surfaces form weathering.

• Protection of concrete surface from saline water, sulphate, etc.

Key Features

1. Liquid applied system - seamless membrane
2. Easy application – by brush, roller or airless spray
3. Good crack bridging ability
4. Excellent adhesion over wide range of construction materials
5. Suitable for waterproofing of Potable Water Tank

Technical Data

Mixing ratio by weight	Powder - 2 Liquid - 1
Pot life at 30oC	30 min
Tack free time	2 hours
Tensile strength	> 0.5 MPa
Elongation at break	> 80 %
Bond strength with concrete	> 1.5 Mpa

DECK ELASTIC

Cementitious Elastomeric Membrane System for Waterproofing

Application Procedure

Surface Preparation

1. Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants.
2. Grind the concrete surface using hand held grinder or concrete grinding machines (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).
3. Repair voids, cracks, broken edge and honeycombs properly using suitable concrete repair products admixed with polymer like Deck Flex.
4. Allow the patched area to cure before applying the membrane.
5. Avoid any sharp change in surface profile. For example joint edge between horizontal and vertical surface must be chamfered using appropriate mortar.
6. All metal surfaces should be made clean of paint, oils, rust and other contaminants.
7. It is mandatory that all work of plumbing and sanitation must be complete before taking up the application of Deck Elastic.
8. All pipe inserts, sanitary fittings should be properly grouted or sealed using appropriate systems.

Application

1. Shake well Deck Elastic Liquid before opening. Take it in a vessel and add Deck Elastic Powder slowly while stirring.
2. Stirring should be done using a low RPM (300-400) hand held helical stirrer. Stir it rigorously for couple of minutes till the it is homogenized.
3. Pre-wet the concrete surface before application of 1st coat.
4. Apply the freshly prepared Deck Elastic mix using clean brush.
5. Allow it to dry for minimum of 8 hours. Apply second and third coat achieve overall consumption of approximately 3 Kg/ Sq.m. The direction of brush movement between two consecutive coat must be perpendicular to each other.
6. At places with high cracking probabilities like construction joints, vertical-horizontal junction, major cracks etc, waterproofing membrane band of Deck Elastic – M of suitable width should be used. Kindly refer the technical data sheet of Deck Elastic – M for more details.
7. Air curing of 7 days recommended before water pond test
8. Protection screed and jacket plaster must be used for areas exposed to foot traffic for long term protection.

DO NOT:
Cure the freshly applied Deck Elastic membrane using ponding with water.
Dilute the Deck Elastic Liquid with water

Packaging

Deck Elastic Powder 20 Kg sack and
Liquid 10 Kg can

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. Deck Elastic Powder performs well for at least 6

Health and Safety

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DECK PROOF

High build Flexible Membrane System for waterproofing

ISO 9001 CE

Introduction

Deck Proof is a unique, effective and highly flexible waterproofing membrane having a high degree of crack bridging property. Being aqueous, it is easy to apply and is user friendly. Deck Proof is a liquid applied system and does not require welding procedure (unlike APP, PVC, bitumen based waterproofing membranes) which is the major source of waterproofing failures. The system is made using highly stable acrylic polymer binders and nonwoven fabrics which have excellent compatibility and wetability with each other. The resultant Deck Proof membrane has excellent bonding, durability and toughness.

The reinforcement provided in the membrane system is a highly saturant 100 GSM polyester based non – woven fabric. This system does not allow the core cracks (if any) to surface due to elastic properties of the chemical base and highly flexible characteristics of the reinforcement. Deck Proof is most suited for waterproofing of terraces, external walls, roofs, balconies and podiums.

Key Features

- Water borne system – no health hazard
- Fast drying and curing
- Good bonding with concrete, brick, stone.

Technical Data

Consistency		White paste
Density		1.2 Kg/ Liter
Solid content		>60 %
Mixing ratio	Primer	Deck Proof: Water =1:2
	Coating	Deck Proof: Water =1:0.3
Application temperature		5 to 35 deg C
Curing time between two coats		8-10 hours
Final Curing time		4 days
Coverage		1.6 - 1.8 Kg/m2.
Tensile strength (ASTM D412)		4-5 MPa (with fleece)
Max. elongation (ASTM D412)		300 % (w/o fleece)
		50 % (with fleece)
SRI (ASTM E1980)		90

safe waterproofing

weather and UV resistant

quickly rainproof

ideal for waterproofing details

DECK PROOF

High build Flexible Membrane System for waterproofing

Application Procedure

Surface Preparation

1. Ensure that the surfaces are absolutely clean, dry and free from dust, loose concrete or mortars, rust, oil & grease and laitance.
2. Ensure that the concrete substrate is dense, compact, strong and well cured.
3. Clean such substrates with grinders, blowers & vacuum cleaners as the case may be. High pressure water jet can be used to obtain desired degree of cleaning.

Priming

4. The primer is to be prepared at site by diluting Deck Proof with clean (Potable) water and thoroughly mixing the material. The primer (Deck Proof: Water = 1:2) is applied with Brush or Roller.
5. Ensure that the primer is applied on totally cleaned up and sound surface by pressing against the prepared substrate.

Membrane application

6. Apply 1st coat of Deck Proof (Deck Proof: Water = 1:0.3) and allow to dry for at least 6 hours.
7. Apply 2nd coat of Deck Proof (Deck Proof: Water = 1:0.3) and fix 100 GSM Polyester fleece. Press the fleece with brush, squeeze or roller to remove all entrapped air. Immediately apply 3rd coat wet on wet over the fleece. Allow the system to cure for 8-10 hours.
8. Apply the final coat of Deck Proof (Deck Proof: Water = 1:0.3) and allow the system to dry off.

The total coating system matures after 24 hrs and is ready for foot traffic after 48 hrs.

9. The clearance for subsequent activities like protection screed or insulation system etc. can be given after 48 hrs of final coat. Please note that low temperature and high atmospheric humidity will delay the setting time.

Packaging

40 kg Drums/20 Kg Pail

Storage

Deck Proof must be stored at room temperature in sealed container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is 6 months from the date of manufacture.

Health and Safety

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DECK PU-1K

Single Component Moisture Curing Polyurethane Waterproofing System

Introduction

Deck PU 1K is a single component moisture curing polyurethane-based liquid-applied waterproofing system. When fully cured Deck PU 1K forms a seamless, tough, permanently flexible, UV stable waterproof membrane on most building materials surface including reinforced concrete, block/brick works, cement render, plaster board and fiber reinforced cement. Properties like excellent bonding with concrete, high elasticity, good crack bridging ability and stability to water allows effective waterproofing even in most demanding conditions. It is an advanced state of water proofing system which offers cost effective solution for some of the most challenging waterproofing conditions in a commercial building like podium garden or swimming pools.

Key features

- Liquid applied system seamless membrane
- Single component – no weighing and mixing at site
- Easy application – by brush, roller or airless spray
- Highly elastic – good crack bridging ability
- Excellent adhesion over wide range of construction materials
- Resistant against plant/grass root penetration
- Excellent resistance to oxidation, UV degradation and embrittlement

Technical data

Workable time	40 – 60 min
Tack free time	12 - 15 hours
Crack Bridging	2 mm
Tensile strength	2 - 4 MPa
Elongation	>300 %
Bond strength	>2 MPa (concrete failure)

Application Procedure

Surface Preparation

1. New concrete surfaces should be fully cured. Make sure the moisture content in the concrete is less than 5%.
2. Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants.
3. Grind the concrete surface using hand held grinder or concrete polishing machine (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).
4. Repair voids, cracks, broken edge and honeycombs properly using epoxy based concrete repair products.
5. Allow the patched area to cure before applying the membrane.
6. Avoid any sharp change in surface profile. For example joint edge between horizontal and vertical surface must be smoothened using appropriate mortar.
7. All metal surfaces should be made clean of paint, oils, rust and other contaminants.

safe waterproofing

weather and UV resistant

quickly rainproof

ideal for waterproofing details

DECK PU-1K

Single Component Moisture Curing Polyurethane Waterproofing System

Priming

8. Apply Deck Prime EP as per the application procedure mentioned in it's technical datasheet.
9. Lightly sprinkle selected quartz aggregate of particle size 16/30 mesh on construction joint, cracks and joint edge between horizontal and vertical surface
10. Allow the primer to cure for 12 hours before further application.

PU 1K Application

11. Open the Deck PU 1K container and stir it gently for couple of minutes.
12. Apply the base coat on well primed surface using suitable brush or roller. Move the brush/ roller in one direction only throughout the base coat. Allow it to cure overnight (12 to 15 hours).
13. Apply the second coat of PU 1K over base coat by moving brush/ roller perpendicular to base coat. Allow it to dry cure overnight.
14. Apply fleece coat of Deck PU 1K over the base coat on construction joints, cracks and vertical horizontal surface edge. To do so thin down the as supplied PU 1K with 8-12 % of Deck Thinner. Soak the precut pieces of Deck Fleece completely with the PU 1K mix and apply on the base coat. Squeeze out air pockets (if any) left between the fleece and base coat surface using brush/ roller. Make sure the fleece is well attached to the surface with no loose or unsupported membrane. Use additional PU 1K mix to properly saturate the fleece surface if required. Allow the membrane to cure for 24 hours.
15. Apply the top coat of Deck PU 1K and allow it to cure for 24 hours.
16. For bonding with cementitious protective screed, apply Deck Prime EP and sprinkle quartz aggregate of particle size 1-2 mm to enhance bonding with subsequent cementitious protective layer.
17. Pond test can be done after at least 48 hours of Deck PU 1K top coat curing.

Coverage

1.2 Kg per m2 depending upon the surface roughness and 2.5 Kg per m2 with Deck Fleece.

Pakaging

25 Kg Tin can and 5 Kg. Tin can

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight for several days. Keep in cool, dry and under shed. Deck PU 1K performs well for at least 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK PU-2K

Solvent Free Polyurethane Waterproofing System

Introduction

Deck PU 2K is a solvent free two component polyurethane based liquid applied waterproofing system. When fully cured, Deck PU 2K forms a seamless, tough, permanently flexible, UV stable waterproof membrane. Deck PU 2K can be applied on most building materials as substrate including reinforced concrete, block/ brick works, cement render, plaster board and fiber reinforced cement. Properties like excellent bonding with concrete, mechanical properties, crack bridging ability and stability against stagnant water and corrosive chemicals allows effective waterproofing even in most demanding conditions. Deck PU 2K offers cost effective waterproofing for some of the most challenging waterproofing conditions in a commercial building like podium gardens or swimming pools.

Key features

1. Liquid applied system - seamless membrane
2. Easy application – by brush, roller or airless spray
3. Good crack bridging ability
4. Excellent adhesion over wide range of construction materials
5. Suitable for waterproofing of Potable Water Tank
6. Resistant against plant root penetration
7. Excellent resistance to hydrolysis, UV degradation and embrittlement

Technical data

Mix density		1.2 g/ml
Mixing ratio	Part A	4 Parts
	Part B	1 by wt
Pot life at 25oC		10 min
Tack free time		2 hours
Tensile strength		> 10Mpa
Elongation		> 50 %
Adhesion strength		> 3 Mpa
Color - Part A		Grey
Color - Park B		Dark Brown

Application Procedure

Surface Preparation

1. New concrete surfaces should be fully cured. Make sure the moisture content in the concrete is less than 5%.
2. Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants.
3. Grind the concrete surface using hand held grinder or concrete grinding machines (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).
4. Repair voids, cracks, broken edge and honeycombs properly using suitable concrete repair products.
5. Allow the patched area to cure before applying the membrane.

safe waterproofing
weather and UV resistant
quickly rainproof
ideal for waterproofing details

DECK PU-2K

Solvent Free Polyurethane Waterproofing System

6. Avoid any sharp change in surface profile. For example joint edge between horizontal and vertical surface must be chamfered using appropriate mortar.
7. All metal surfaces should be made clean of paint, oils, rust and other contaminants.

Priming

1. Apply the first coat of Deck Prime EP and allow it to absorb for 20-30 min. Apply the second coat wherever necessary.
2. Lightly sprinkle selected quartz aggregate of particle size 1-2 mm (mesh 16/32) while the primer is wet.
3. Allow the primer to cure for 12 hours before further application.

PU 2K Application

1. Open the Deck PU 2K Part A container and stir it rigorously for couple of minutes till the it is homogenized. Add Part B while stirring and mix it to a uniform consistency.
2. Apply the base coat on well primed surface using suitable brush or roller. Move the brush/ roller in one direction only throughout the base coat. Allow it to cure for 2-3 hours.
3. Apply fleece coat of Deck PU 2K over the cured base coat. First prepare Deck PU 2K mix thinned by 8-10 % using Deck Thinner to enhance the saturation with Deck Fleece 120. Spread the mix on the base coat surface and lay down the precut pieces/ roll of Deck Fleece 120. Allow the fleece to absorb the mix. If more Deck PU 2K mix is required it should be applied underneath the fleece and not of top of it. Squeeze out air pockets (if any) left between the fleece and base coat surface using brush/ roller. Make sure the fleece is well attached to the surface with no loose or unsupported membrane. Allow the membrane to cure for 2-3 hours.
4. Apply the final top coat of Deck PU 2K and allow it to cure.
5. To enhance bonding with subsequent cementitious protective layer like screed or plaster, sprinkle quartz aggregate of particle size 2-5 mm (mesh 12/16) on to the freshly applied top coat of Deck PU 2K.
6. Pond test on Deck PU 2K can be done after 3 days of air curing.

Coverage

2.5 Kg/ Sq.m. with Deck Fleece 120. It will develop a membrane of 1.8-2 mm thickness. The consumption will increase with increase in surface undulations.

Pakaging

5 Kg Pack and 25 Kg Pack

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. Deck PU 2K performs well for at least 6 months from the date of manufacture if stored following aforesaid method. Packs once opened have to be consumed immediately.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK POLYUREA- FFP

Ultrahigh Tough Liquid Applied Hybrid Polyurea Membrane

Introduction

Deck Polyurea FFP is liquid applied polyurea based waterproofing system. The unique proprietary chemistry of Deck Polyurea FFP makes the product suitable for brush/ roller application unlike widely known polyurea coating which require special dispensing machine for application. Fully cured Deck Polyurea FFP membrane has excellent stability against water, acid, base and common solvents. Optimized mechanical properties and crack bridging ability of the product ensures durable and resilient waterproofing membrane.

Key Features

• Low volatile organic content

• Fast curing

• Easy to apply

• Excellent mechanical properties

• Good crack bridging capability

• Excellent adhesion with concrete, masonry andnatural stone

• Excellent flexibility even under low temperature

• Anti root penetration property

Technical data

Mix density		1.2 g/ml
Mixing ratio	Part A	3 Parts
	Part B	1 by wt.
Pot life at 25oC		15 min
Tack free time		2 hours
Full cure time		7 days
Tensile strength		>7 N/mm2
Elongation		>500 %
Adhesion strength		>3.0 N/mm2
Crack bridging ability		>5 mm

Application Procedure

Surface Preparation

- New concrete surfaces should be fully cured.
- Make sure the moisture content in the concrete is less than 5%. Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants.
- Grind the concrete surface using hand held grinder or concrete polishing machine (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).

DECK POLYUREA- FFP

Ultrahigh Tough Liquid Applied Hybrid Polyurea Membrane

- All metal surfaces should be made clean of paint, oils, rust and other contaminants.
- Repair voids, cracks, broken edge and honeycombs using epoxy based concrete repair products (like Deck Repair EP) or fast curing cementitious repair product (like Deck CRS or Deck Micro Concrete)
- Allow the patched area to cure before applying the membrane. Avoid any sharp change in surface profile. For example joint edge between horizontal and vertical surface must be smoothened using appropriate mortar.
- Apply Deck Prime EP on the prepared surface as directed in its technical datasheet and allow it to cure for 12 hours before further application.

Waterproof Repair

- All construction joints, cracks, horizontal vertical junction edge must be repaired using Deck Fleece 120 reinforced Deck Polyurea FFP membrane.
- Open the Deck Polyurea FFP Part A and B containers and stir Part B gently for 2-3 minutes.
- Take a clean and dry container of suitable size. Add Part A and Part B proportionally as given the technical data table stir it well using a hand held low RPM (300-400 RPM) stirrer for 1-2 minute.
- Apply the mix as base coat on well primed surface using suitable brush or roller. Allow it to cure for 3 - 4 hours.
- Apply fleece coat of Deck Polyurea FFP over the base coat. First thin down the Deck Polyurea FFP mix with 15-20 % of Deck Thinner. Soak the precut pieces of Deck Fleece completely with the mix and apply on the Deck Polyurea FFP base coat. Using brush/ roller of suitable size squeeze out air pockets (if any) left between the fleece and base coat surface. Make sure the fleece is well attached to the surface with no loose or unsupported membrane. Use additional Deck Polyurea FFP mix to properly saturate the fleece surface if required.
- Allow the membrane to cure overnight.

Waterproof Coating

- Apply three coats of Deck Polyurea FFP over well primed surface using brush/ roller.
- Make sure brush/roller movement for any two consecutive coats is perpendicular to each other.
- Allow the previous coat to cure for 3-4 hours before applying the next coat.

Coverage

1.2 Kg per sq.m. depending upon the surface roughness.

2.5 Kg per sq.m. with Deck Fleece 120 reinforced membrane.

Packaging

Deck Polyurea FFP Part A-3 Kg can and 0.75 Kg can

Deck Polyurea FFP Part B-1 Kg can and 0.25 Kg can

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight for several days. Keep in cool, dry and under shed. Deck Polyurea FFP performs well for at least 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

Product Disclaimer

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DECK ADMIX

High Performance Waterproofing Admixture

Introduction

Deck Admix is a high performance concrete admixture specially used for concreting basement, Under Ground Water Tanks, Over Head Water Tanks, as an essential waterproofing admixture. Deck Admix, when used in specified dosages, enhances the cohesive property and workability of concrete.

In spite of the optimal composition provided for high strength concrete having good compactness, one may land up getting small voids or capillary pores up to 15% volume. This is generally due to extra addition of water at site intended for better workability or to make the concrete easily pourable. Deck Admix is designed keeping in view the ground realities of site. It contains selected proprietary chemicals that result in contraction of capillary pores. The special active compounds of Deck Admix convert water absorbing capillary forces into water repelling capillary forces due hydrophobic effect, thus reducing the passage of water through concrete.

Deck Admix is best suited for large concrete pours which are managed through batching plants and transported through transit mixers. Being a high performance waterproofing admixture, one can get totally capillary proof concrete.

Key Features

- Resists water penetration and absorption.
- Makes the mix more workable (improves the slump)
- Makes the w/c ratio reduction possible.
- Does not change setting time nor adversely affect the reinforcement.
- Disperses rapidly and makes a homogeneous mix free from chlorides
- Provides an efficient and durable barrier against rain water, moisture and ground water.Makes the concrete waterproof.

Technical Data

Appearance	Grey powder
Bulk density	1500 Kg/cu.m.
Dosage (by cement weight)	0.8 %

DECK ADMIX

High Performance Waterproofing Admixture

Application Procedure

1. Deck Admix is easy to use either in the batching plant or in a transit mixer at site. Deck Admix should be added to the concrete after all other components of the mix have been added. Concrete should be mixed for at least 3-5 minutes after addition of Deck Admix.
2. For the addition of Deck Admix in transit mixer, first mix desired quantity of Deck Admix (i.e. 400gm per 50 kg of cement) in water to make thin slurry. Most preferred way is to mix 20kg of powder in 25 liters of water and this slurry can be directly added into concrete in transit mixer.
3. E.g. - If transit mixer is having 6m3 of concrete with cement content of 2100kg then one has to add 16.8 kg of Deck Admix and 21 liter of water to make slurry. Pour this slurry into transit mixer and run it for 5min so that Deck Admix can get thoroughly mixed into the concrete.

Packaging

20 Kg bag and 400 grams pouch

Storage

Deck Admix must be stored in unopened bags in cool and dry conditions. It has a shelf life of 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK HDPE

Preapplied selfadhered HDPE sheet for underground structure waterproofing

Introduction

DECK HDPE is a multilayer compound waterproof membrane composed of strong high density polyethylene (HDPE) sheet, premium quality pressure sensitive adhesives, and white fine mineral sand layers, specially developed adhesive layer can keep continuous bond to postpoured concrete for basement structure waterproofing.

Technical Data

Top surface	White silica granules
Bottom surface	Milky white HDPE sheet
Thickness	1.2 mm
Width	1.2 m
Side lap	75 mm
Tensile strength (ASTM D412)	> 25 MPa
% Elongation at break	>500 %
Puncture resistance (ASTM E154)	>800 N
Peel adhesion to concrete	>1200 N/m
Hydrostatic head resistance	70 m

Key Features

- Excellent tensile strength, tear strength and elongation performance, and the Fully new bonding techniques can keep continuous bond to postpoured concrete.
- Excellent anti impact and antipuncture performance, not need additional protection layer, reinforced concrete poured directly.
- Excellent chemical resistance to alkaline water from concrete slurry, not affected by the living garbage, biological invasion, mildew, corrosion resistance.
- Without screedcoat, less requirements for substrate, application will not affect by weather and damp surface, and hold significant application advantages during rainy season or catch the deadline.
- Cold application with pressure sensitive adhesives, ecofriendly, and not need cement-mortar protective layer, save time & cost.
- Excellent weather resistance and antiaging

safe waterproofing

weather and UV resistant

quickly rainproof

ideal for waterproofing details

DECK HDPE

Preapplied selfadhered HDPE sheet for underground structure waterproofing

Application Procedure

- It is essential to create a sound and solid substrate to eliminate movement during the concrete pour.
- Substrates must be fairly regular and smooth with no gaps or voids greater than 12mm.
- Grout around all penetrations such as utility conduits, etc. for stability
- Place the membrane with HDPE side to the substrate with plastic release liner facing toward concrete pour.
- Leave plastic release liner in position until overlap procedure is completed. Accurately position succeeding sheet to overlap the previous sheet by 75mm along the marked edge.
- Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap.
- Peel back the plastic release liner between the overlaps and bond the two layers together.
- Ensure a continuous bond is achieved and press with roller.
- Concrete must be poured within 40 days of application of the membrane. During the pour care must be taken while vibrating the concrete.

Packaging

Supply in 24 m2 per roll. Roll width 1.2 m, length 20 m

Storage

- Store rolls on horizontal position to prevent damage
- Store under shed in clean and dry condition.
- Storage temperature should be less than 40oC.
- Shelf life is 6 months from the date of manufacture

Health and Safety

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DECK MICRO CONCRETE

High Strength Repair Mortar

Introduction

Deck Micro Concrete is a nonshrink cementitious repair mortar for repairing damaged concrete elements like beams, columns and other areas. Deck Micro Concrete, when added with water forms a freeflowing, workable mortar which can be used to repair intricate areas of the structure as well. The high quality cement, well graded quartz aggregates and special admixtures in Deck Micro Concrete impart very high strength to the cured mortar.

Key Features

- Flowable mortar: No compaction required
- High strength: Very high initial and ultimate compressive strength
- Nonshrink: Special additives in Deck Micro Concrete compensate for the shrinkage
- Rapid strength gain: allows for removal of shuttering early

Application Areas

- Damaged areas of concrete like beams, columns and others where access is restricted
- Strengthening of columns by jacketing

Technical Data

Appearance	Grey dry powder
Bulk density	1600 Kg/cu.m.
Cured density	2300 Kg/cu.m
Water requirement (for 100 Kg)	15 Kg
Pot life	20–30 min
7 Day compressive strength	> 40 N/mm2

DECK MICRO CONCRETE

High Strength Repair Mortar

Application Procedure

Surface Preparation

1. Surface to be repaired should be clean and sound, free from any deleterious material.
2. Weak portion of concrete should be removed till sound surface is obtained. Damp down the surface of old concrete before pouring Deck Micro Concrete.

Mixing

3. Deck Micro Concrete is supplied in powder form. Mix water to the powder in the ratio of 0.15 approximately to get the desired consistency.

Application

4. Pour Deck Micro Concrete into a watertight shuttering.
5. Care should be taken to see that the gaps in the shutter forms are effectively sealed with masking tape or cotton to ensure that the material does not run out of shutters joints.
6. Cure the repaired concrete for minimum 7 days after removing the shuttering.

Packaging

30 kg sack

Storage

Avoid extreme temperatures and direct exposure to water/moisture. Keep in cool, dry and under shed. Deck Micro Concrete performs well for at least 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK GROUT EPSL

Epoxy Resin based Self Levelling Grout

Introduction

Deck Grout EPSL is a nonshrink, high strength solvent free self levelling epoxy grout based on high strength epoxy resin and graded aggregates. It has excellent bonding properties and toughness. Deck Grout EPSL can be applied on concrete, stone, steel, aluminium, wood, PVC, polyester as selflevelling epoxy mortar.

Application Area

- Grouting of crash barrier post, bearing plates, machine bases
- Encasing steel in concrete
- Grouting of concrete core cut filled PVC or steel pipe
- Filling rigid joints in concrete

Key Features

- No volatile vapour emission thus can be applied in closed area
- Excellent bonding with concrete, brick, stone, steel and PVC
- No shrinkage
- High compressive and flexural strength
- Ready to mix, pre batched components

Technical Data

Appearance		Grey
Consistency		Viscous liquid
Mixing ratio	Part A	1 by wt.
	Part B	0.5
	Part C	2.5
Pot life		45 Min @ 25 deg C
Density of mix		1.7 g/ml
Application temperature		10 to 40 deg C 10-
Touch dry time		12 hours
Full cure time		7 Days
Bond strength		>3 N/mm2
Tensile strength		>20 N/mm2

DECK GROUT EPSL

Epoxy Resin based Self Levelling Grout

Application Procedure

1) Make sure the surface is free from debris, dust, oil, laitance, paint, grease etc.

2) Grind the concrete surface properly using hand held grinder machine. Remove dust using vacuum system or air blower.

3) Open Deck Grout EPSL container and mix all the three pre batched components in the container using a low RPM (300 - 400) hand held helical stirrer till a homogeneous mass of uniform colour is obtained.

4) Fill the grouting area and to facilitate filling of pores tap the grout using rod of suitable size. Mechanical vibration is not necessary.

Storage

Deck Grout EPSL must be stored at room temperature in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is at least 6 months from the date of manufacture.

Packaging

4 Kg. Pails

Health and Safety

Deck Grout EPSL is a nontoxic and nonflammable product. It does not create a fire hazard. Avoid prolong contact with skin. In case material comes in contact with eyes, rinse your eyes with copious amount of clean water. Use protection – creams / gloves in case of sensitive skins. It is easy to clean with water when the material is wet.

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DECK PLAST DM

Liquid integral water reducing waterproofing admixture

Introduction

Deck Plast DM is a general purpose water reducing and waterproofing admixture for cement concrete and mortar. Use of Deck Plast DM can lead to reduction in water requirement by 15% without compromising the workability.

Key features

- Chloride free admixture no risk of reinforcement corrosion
- Reduction in concrete/ mortar overall porosity
- Prevents segregation of heavier aggregates
- Reduces bleeding in fresh concrete
- Helps in reducing water cement ratio
- Reduces cracks formation in plaster and screed
- Increases durability and corrosion resistance of concrete
- Compatible with all kind of mineral cement like OPC, PPC etc

Technical Data

Form	Liquid
Color	Dark Brown
Density	1.1 kg/ltr
Solid Content	Min 27%

Instructions for Use

1.The standard rules of good concreting practice, concerning production and placing must be followed.
2. Deck Plast DM is well suited for both readymix concrete or site mix concrete.
3. For site mixing, add required amount of Deck Plast DM with the mixing water. Do not add directly in to the dry cement mix. Stir the mix for 12 min.
4. For mixing in the transit mixer, the admixture can be directly added in the concrete. Rotate the mixer at it's maximum RPM for 2 – 3 min.

Dosage

Typical dosage is 0.5 to 2% of the cement content. It is recommended to conduct preliminary site trials based on the required workability and water cement ratio.

Packaging

1 Kg/ 5 Kg / 20 Kg Cans

DECK PLAST DM

Liquid integral water reducing waterproofing admixture

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. Deck Plast DM performs well for 12 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK PRIME EP

High performance Epoxy Primer

Introduction

Deck Prime EP is an epoxy based two component, low viscosity, transparent primer for concrete surface. It is best suited for enhancing the bonding between polyurethane/ polyurea based liquid applied waterproofing membrane and concrete surface. Deck Prime EP is extremely resistant to water or any other chemical degradation thus provides durable bonding for the waterproofing membrane.

Key Features

- Low volatile organic content
- Fast curing
- Excellent adhesion with concrete, brick and natural stone
- Low mix viscosity
- Resistant to hydrolysis and chemical attack
- Optimum pot life
- Transparent in colour

Technical Data

Mixing ratio	70:30::A:B by weight
Pot life	20 – 30 min
Tack free time	3-4 hours
Cure time	24 hours
Bond strength	>3 MPa (concrete failure)
Coverage	200-300 g/sq.m.

Application Procedure

1. Make sure the surface is free from debris, deshuttering oil, laitance, paint, grease etc. The moisture content in the concrete must be less than 5%.
2. Grind the concrete surface properly using hand held grinder machine or concrete polishing machine (for larger areas). Remove dust using vacuum system or air blower.
3. Take a clean and dry container of suitable size. Openpart A and part B container and empty completely them in the container. For part mixing, weigh both the components precisely in the recommended proportion. Mix it using a low RPM (300-400) stirrer for 1-2 min.

DECK PRIME EP

High performance Epoxy Primer

4. Apply the primer on the prepared surface using clean brush/ roller. The surface may absorb the primer initially thus apply again if it looks necessary.
5. For enhanced bonding with fleece reinforced liquid applied membrane lightly sprinkle quartz aggregate of particle size 1-2 mm while the primer is tacky.
6. Allow the primer coat to cure for 3-4 hours before further application.

Packaging

Deck Prime EP Part A – 3.5 Kg and 14 Kg

Deck Prime EP Part B – 1.5 Kg in 6 Kg

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. Deck Prime EP performs well for at least 6 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow. Avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK CRS REPAIR

Polymer Modified Concrete Repair Mortar

Introduction

Deck CRS Repair is a polymer modified cementitious two part system designed for bonding coat, concrete surface repair and patch work up to thickness of 10 mm. It can be used to resolve concrete surface problems like surface pores, undulations, broken edge etc. Deck CRS Repair is specially developed to enhance bonding between old concrete/ cementitious waterproofing membrane and cementitious screed/ plaster. It has excellent bonding with concrete and exhibit good tensile and flexural strength.

Key features

- Good bonding with concrete, brick and stones.
- Self curing system.
- Does not require additional water sprinkling for curing.
- Easy application for large or small areas.
- Suitable for outdoor and indoor application

Technical Data

Appearance	Grey Powder
Bulk Dry Density	1.3 Kg/ Ltr
Mixing ratio by weight	Deck CRS Repair– 30 Kg Deck Flex – 1.5 Kg Water – 6 Kg
Initial set at 30 deg C	20 – 30 min
Cure Time	7 Days
Bond Strength	> 1.5 MPa

Packaging

Deck CRS Repair Powder Component - 30 Kg Sack

Deck Flex Liquid Component – 10 Kg or 20 Kg Pail

DECK CRS REPAIR

Polymer Modified Concrete Repair Mortar

Application Procedure

1. All surfaces must be clean, sound and free of dust, laitance, oils/ grease, paints, curing membranes and release agents etc.
2. Concrete surfaces must be mechanically scrabbled depending on surface conditions and water washed
3. The strength of the concrete substrate should be a minimum of 20 N/mm2.
4. Warning: Do not apply over soft, chalky or dusty concrete.
5. Do not mix by hand. Use a mortar stirrer with an electric drill. Mix at slow Speed (400 to 500rpm)
6. Add 6 Kg of water and 1.5 Kg of Deck Flex to an empty pail and briefly mix the liquids.
7. Slowly add Deck CRS Repair powder component while continually mixing until a homogeneous thoroughly mixed paste is obtained.
8. Apply Deck Flex primer (Deck Flex: Water:: 1:2) on to the concrete surface using brush or roller and let it dry thoroughly.
9. Apply the freshly prepared Deck CRS Repair mix using smoothtrowel.

Storage

Avoid extreme temperatures and direct exposure to water/ moisture. Keep in cool, dry and under shed. Deck CRS Repair performs well for at least 6 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach.

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DECK PLUG

Fast Setting Cementitious Plugging Compound

Introduction

Deck Plug is a fast setting, non shrink polymer modified cementitious water stop, specially formulated to stop active water leakage even under pressure. Deck Plug can be used as a Plugging Mortar due to its rapid setting andearly development of strength properties. It is specially recommended for:

1. Plugging and Stopping active water leakages.
2. Sealing the cracks, tie rod holes and leaking honeycombed pockets.

Key Features

- It is fast setting material – sets within 30 sec. to 1 min after mixing
- Stops live water flow
- Durable product
- Mix only with clean water. No other admixtures required
- User friendly

Technical Data

Form	Dry Powder
Bulk Density	1600 Kg/ cu.m.
Cured density	2000 Kg/ cu.m.
Application Temperature	5 deg C to 35 deg C
Water requirement (for 1 Kg)	250 g
Pot Life	30 Sec

Application Procedure

Surface Preparation

1. The surface must be a sound and free from all possible surface contamination, viz, timber embedment, protruding binding wires, oil, grease or any foreign material.
2. Inspect the leakage spot and cut open and remove all the loose, honey combed or sprawled concrete till you get a sound and hard substrate. Ensure to create sizable plugging recesses to plug it with Deck Plug.

DECK PLUG

Fast Setting Cementitious Plugging Compound

Mixing

3. The setting time of Deck Plug (30 Sec to 1 Min) is to be kept in mind before mixing. Mixing of 1 Kg of Deck Plug powder with 250 ml of water will result into proper plugging mass.
4. Deck Plug must be added to water and mixed quickly. The mixed material should have a dry pack consistency. Mix for 15 seconds and use within next 30 seconds.

Application

5. Since the concept is for sealing and plugging a pocket of line water leakage, mix only is small quantities to avoid wastage.
6. After mixing, immediately apply Deck Plug into the prepared pocket or hole and wedge it and force it against the live leakage, hold it pressed till it sets. Maintain the pressure without disturbing the material till it sets. Apply as much pressure as possible with the help of a wooden mallet or frost.
7. Finish the surface by Deck CRS mortar. Allow the repairs to set and gain strength.

Packaging

30 Kg sack and 5 Kg pack.

Storage

Deck Plug must be stored in the original sealed packaging under cool and dry conditions. It must be protected from exposure to moisture or water. Shelf life is 6 months from the date of manufacturing.

Health and Safety

Toxicity: Nontoxic. Flammability: Non Flammable when wet. It does not create a fire hazard. Skin Contact: Prolonged contact is to be avoided. Use protection – creams / gloves in case of sensitive skins. Cleaning: Easy to clean with water when the material is wet and in case of dried material use general purpose acrylic paint cleaners. In case material comes in contact with eyes, rinse your eyes with copious amount of clean water. Ventilation: Ventilation at working area is desired.

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SEALSTRONG

Semi Rigid Polyurea Sealant

Introduction

Sealstrong is new generation of semirigid sealant based on polyurea chemistry. It is a 100% solid, selflevelling and fast setting product which forms tough and flexible material after just few hours of application. The cured product can easily withstand mechanical shock, vehicular traffic, fork lift/ trolley movement, thermal expansioncontraction of the substrate without cracking or debonding.

Key Features

- Filling control joints in the concrete floor
- Concrete penetrative pipe sealing
- Repairing of the moving surface crack on concrete for durable waterproofing
- 100% solid – no toxic vapour emission
- Fast setting – less downtime
- Good bonding with concrete, steel and roughened PVC surface
- Ultra high toughness
- Excellent crack bridging ability
- Good abrasion resistance
- High chemical resistance

Technical Data

Pot life	5-10 min
Tack free time	2-3 hours
Cure time	24 hours
Mixing ratio	3:1::A:B by weight
Mix density	1.2 g/ml (1200 Kg/cu.m.)
Bond strength	>3 MPa (concrete failure)
Tensile strength	>5 MPa (ASTM 412)
Max. elongation	>500 % (ASTM 412)
Tear Resistance	>60 N/mm (ASTM D624)

Application Procedure

Concrete Crack Sealing

1. The joint/ gap must be free from any dust, debris, oil and water.
2. Concrete surface crack must be opened in ‘U’ shape having width and depth of 10 mm approx.
3. Just prior to filling carefully clean remove dust using air blower or vacuum cleaner.
4. Prepare Sealstrong mix, empty completely Part B in the Part A container and mix it using low RPM jiggy mixture.
5. Pour the mixture in the joint/ gap/ crack. The joint/ gap/ crack must be filled up to full depth.

SEALSTRONG

Semi Rigid Polyurea Sealant

Application Procedure

Concrete Penetrative Pipe Sealing

1. Concrete penetrative pipe can be sealed as per the system shown in the below image. It consist of two layers of non woven fleece reinforced Sealstrong membrane, one layer seal at the pipe surface while the other layer seal from the substrate side.
2. First prepare the surface properly. Clean the surface such that it is free from dust, paint, laitance, oil etc. Grind the concrete surface surrounding pipe and roughen the pipe with emery paper.
3. Fill the gap between the pipe and concrete using Deck Micro Concrete such that the pipe is well fixed at its place. Allow it to cure for 24 hours.
4. Clean the surface and apply Deck Prime EP as per the application procedure given in its technical datasheet.
5. Repair the concrete surface (if required) using Deck Repair EP and allow it to cure.
6. Prepare the Sealstrong mix for fleece reinforced membrane application. Take a clean and dry container of suitable size. Empty Sealstrong part A and B completely in it and add 100 grams of Deck Thinner for 1 Kg of Sealstrong. Mix it using a low RPM (300-400 RPM) handheld stirrer till a homogeneous liquid is obtained (generally it will take 1-2 min).
7. Apply the Sealstrong mix on the concrete substrate and pipe using brush.
8. Soak both the fleece layer properly with the prepared Sealstrong mix.
9. First place the fleece layer extended over the pipe surface as shown in the figure.
10. Then place the second layer. Apply Sealstrong mix (if required) to saturate both the layer of fleece properly.
11. Make sure there is no air pocket left between the fleece and pipe/ concrete surface.
12. Allow the system to cure for 24 hours before further application.

Packaging

Sealstrong Part A – 3 Kg

Sealstrong Part B – 1 Kg

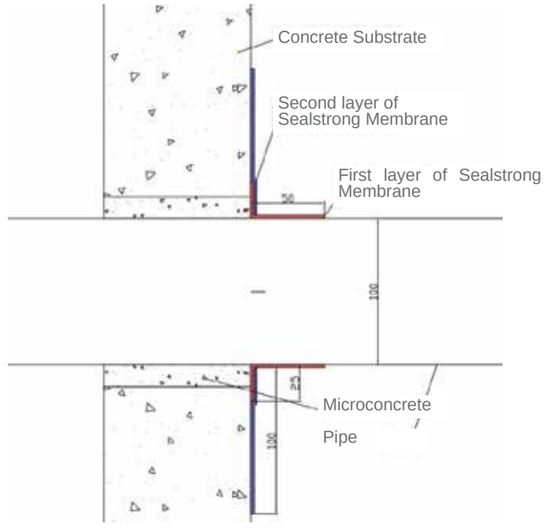

Figure 1: Schematic for Concrete Penetrative Pipe Sealing

Storage

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Keep in cool, dry and under shed. Sealstrong performs well for at least 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow. Avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

Product Disclaimer

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental conditions while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt about application performance.

DECK FLEX

Emulsion based admixture for enhancing the binding properties of mineral cement

Introduction

Deck Flex is an acrylic polymer based admixture for cement, cementitious screeds & concrete. It is also used to enhance the bonding properties of cementitious adhesives generally used for tiles and marble or stone cladding. The use of Deck Flex in cementitious concrete/mortar/plaster enhances the flexure and tension mechanical properties. Deck Flex modified products exhibits low permeability and remarkable improvement in prevention of carbonation and chloride ion penetration. The addition of Deck flex imparts resilience to concrete matrix thus improves impact resistance.

Application

- As an admixture for repair mortars & concretes for structural rehabilitation of building and bridges
- Self leveling high bonding screeds
- Watertight plaster jackets and brickbat coba or screeds
- Coating system with cement to protect the structure against carbonation and chloride ion penetration
- As an admixture for cementitious grout
- Bonding agent for new and old concrete

Key Features

- Increases tensile and flexural properties
- Increases impact resistance
- Reduces permeability and thus water absorption
- Reduces shrinkage cracks

Increases cohesive and adhesive properties

Technical Data

Base	Acrylic Polymer
Appearance	Milky White Liquid
pH	> 8.0
Solid Content	40 %

Application Procedure

Mix Deck flex in water prior to addition in cement mortar or concrete.

Dosages vary from 5% to 8% by weight of cement depending upon the specified use of concrete or mortar.

DECK FLEX

Emulsion based admixture for enhancing the binding properties of mineral cement

Application Procedure

A) Polymer Modified Mortars
- Cement: 100 parts by weight (pbw)
- Sand: 300 pbw
- Deck flex: 5% to 8% pbw
- Water: 30 to 35 pbw

B) Polymer Modified Concrete
- Cement: 100 pbw
- Sand: 200 pbw
- Aggregate: 300 pbw
- Deck flex: 10 to 15 pbw
- Water: 35 to 40 pbw
- Slump: 75mm

C) Bonding Slurry Coat
- Cement: 100 pbw
- Deck flex: 50 pbw + Water 50 pbw
- Coverage: 2 sqm per kg of mix

Curing

Polymer modified concrete, mortars or slurries being cementitious materials should be well protected from rapid drying and hence recommended to be cured under temporary shades & light sprinkling of water or in damp and cold atmosphere.

Packaging

20 kg pails / 10 kg pails / 5 kg pails

Storage

Deck Flex must be stored at room temperature in sealed container. Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is at least 6 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Deck Flex is a nontoxic and nonflammable product. It does not create a fire hazard. Avoid prolong contact with skin. In case material comes in contact with eyes, rinse your eyes with copious amount of clean water. Use protection – creams / gloves in case of sensitive skins. It is easy to clean with water when the material is wet. In case Deck Flex is dried use general acrylic paints cleaners.

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DECK SRM

Polymer Modified High Strength Repair Mortar

Introduction

Deck SRM is a polymer modified, fiber reinforced cementitious repair mortar for repairing damaged concrete elements like beams, columns and other areas. Deck SRM is specially designed for the repair of sprawling concrete members. The high quality cement, well graded quartz aggregates and special admixtures in Deck SRM impart very high strength to the cured mortar.

Key features

- Good adhesion
- Easy to use, only addition of clean water is required at site
- High initial and ultimate compressive strength
- Special additives in Deck SRM tends to compensate for the shrinkage
- Rapid strength gain

Technical Data

Appearance	Grey Powder
Dry Bulk Density	1300 kg / cum
Consumption	2000 kg / cum
Cured Density	2300 kg / cum
Water Requirement	4.5 Ltr for 30 kg
Grading	2.36mm down
Initial Set Time	30 min
7 day compressive strength	>40 N/mm2

DECK SRM

Polymer Modified High Strength Repair Mortar

Application Procedure

Surface Preparation

- Surface to be repaired should be clean and sound, free from any deleterious material.
- Weak portion of concrete should be removed till sound surface is obtained.
- Corroded steel reinforcement should be cleaned to remove the rusted part.
- Apply Deck Bond RHAB on the reinforcement for protection against corrosion.
- Apply Deck Flex primer on the old concrete surface and allow it to dry for couple of minutes
- Prepare Deck Flex primer by mixing Deck Flex and water in the ratio 1:1.

Mixing

- Deck SRM is supplied in powder form.
- Mix approx 4.5 ltr clean water for 1 bag (30 Kg) of Deck SRM.

Application

- Apply freshly prepared Deck SRM on the prepared substrate using trowel.
- It is recommended to add 5% Deck Flex when being applied on steel surfaces.
- Cure the repaired concrete for minimum 7 days using water sprinkling or covering with wet gunny bags.

Packaging

30 Kg Sack

Storage

Avoid extreme temperatures and direct exposure to water/ moisture. Keep in cool, dry and under shed. Deck SRM performs well for at least 6 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

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DECK MORTAR

High Performance Readymix plaster based on premium quality riversand

Introduction

Deck Mortar ready mix cement plaster is a mix of premium quality graded river sand, high performance plasticizers and mineral binder. This cement plaster is specially designed for excellent strength, bonding and low rebound losses. Available in ready to use bags, it makes the application easy and fast. Deck Mortar eliminates the need for getting sand, cement and other additives and mixing them on the site. A high performance mix is assured as it is batched and blended in the stringent quality standards of the factory unlike mixing at sites.

Key features

- High quality, moisture and silt free river sand based plaster.
- Specially formulated for lower rebound losses and excellent bonding.
- High early strength development.
- No wastage at site.
- Easy to transport to higher floors.
- Enhanced productivity of plastering.

Technical Data

Form	Grey powder
Bulk density	1800 Kg/cu.m.
Compressive strength (7 days)	10 N/mm2

Application Procedure

Surface Preparation

Surface should be clean and free of dust, grease etc. else it will affect the bonding of the plaster. If the surface is dry, it should be moistened with clean water.

Mixing

Prepare plaster mix by adding 6-7 liters of water per bag of Deck Mortar (50 kg). The correct ratio of water and Deck Mortar is essential for good plaster.

DECK MORTAR

High Performance Readymix plaster based on premium quality riversand

Application

1. Deck Mortar can be applied by hand as per standard practices in such a way that the single coat thickness does not exceed 15mm.
2. For faster application and better adhesion to the base, it is rec ommended to use the special plaster spray machine available. Please contact the manufacturer for details.

Packaging

50 kg bag

Storage

Deck Mortar must be stored in the original sealed packaging under cool and dry conditions. It must be protected from exposure to moisture or water. Shelf life is 6 months from the date of manufacturing.

Health and Safety

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