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# MCON MAGIC COAT 2K

POLYMER MODIFIED TWO
COMPONENT HEAVY DUTY
WATERPROOF COATING

#### **Product Description:-**

MAGIC COAT 2K is a two component modified acrylic polymer based cementitious waterproof coating system, which on mixing and hardening provides excellent water resistant barrier. It offers extremely high resistance to both positive and negative pressures.MAGIC COAT 2K has excellent flexibility, breathing properties, water resistance, crack bridging properties, weathering durability, and resistance to growth of microbial organisms.







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### **Areas of Application:-**

- MAGIC COAT 2K must be applied to new or old concrete substrates that are structurally sound.
- Excellent as a waterproof coating for bathrooms, kitchen sinks, balconies, etc.
- ✓ Ideal as a coating for waterproofing of chhajjas, canopies, terraces etc.
- As waterproof coating on internal sides of domestic water tanks.
- Good for waterproofing of sloped roofs.



#### Features & Benefits:-

- ✓ Elastomeric elastomeric flexible coating that accommodate cracks up to 2 mm with an elasticity of 40-50%.
- ✓ Low water permeability excellent resistance to ingress of water.
- ✓ Adhesion excellent adhesion to concrete and masonry surfaces.
- Eco-friendly Non-toxic with low VOC content.
- Certified as a "potable water safe" coating for waterproofing of water tanks.



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### **Method of Application:**

#### **Surface preparation:-**

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.

Repair the spalled concrete portion by MCON Polymer Mortar to the depth of at least 10 mm to avoid feather edging & to provide strong bond.

Clean the concrete surface to remove any contamination. Where breaking is not possible, roughen the surface by light scrabbling or grit blasting.

For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess water prior to application.

#### Mixing:-

Shake the liquid component well to a homogenous milky colour.

Use heavy duty slow speed mechanical mixer fitted with a suitable paddle for mixing the two components of the material.

In a mixing vessel, slowly add the powder component in to the liquid under continuous stirring. Continue to stir thoroughly to achieve a lump free homogenous slurry.





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#### **Coating Application:**

The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state. Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are completely filled with the coating.

3 to 4 hrs after completion of first coat, take up second coat application in a direction perpendicular to the first.

Complete the application and leave to air cure for 2 days. A moist hessian cloth can be kept over the coated surface to protect it from the effect of direct sunlight, in case of small open balconies or terraces, in bathrooms and internal areas.

In new bathrooms, typically, MAGIC COAT 2K must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet, i.e. Over the splash zone of shower, etc. to ensure complete waterproofing.

#### **Precautions & Limitations:**

Always add powder to liquid to avoid lump formation.

Do not cure by flooding with water.

Cure the membrane with moist hessian cloths.

Do not conduct any ponding test before it is completely cured for 7 days.





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#### **Coverage:-**

As a waterproofing coating: 80 - 100 sq.ft./ pack of 15 kg in 2 coats



### **Shelf Life & Storage:-**

12 months in original packing if stored at room temperature i.e.25° C



### Packing:-

15 kgs. (10 kgs. + 5 liters) 3 kgs. (2 kgs. + 1 liter)



\*(Mcon Rasayan has maintained the highest level of Quality and Consistency by following Systems and is certified as An ISO 9001 : 2015, An ISO 14001 : 2015 & AN BS OHSAS 45001 : 2018 Company.)

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### MCON MAGIC COAT WP

HIGH SOLID CONTENT ACRYLIC BASED WATERPROOFING COATING

### **Product Description:-**

MCON MAGIC COAT WP is a heavy duty acrylic base polymeric waterproof coating which when mixed with cement forms a durable and highly water-resistant matrix to give 100% waterproof surface. MAGIC COAT WP has excellent flexibility and bonding with concrete, breathing properties, water resistance, crack bridging properties, weathering durability.







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### **Areas of Application:-**

- ✓ Foundations, basements & lift pits.
- Terrace Gardens.
- Sunk portion of bathrooms, toilets, balconies, etc.
- To modify the properties of Cement mixes like mortar, concrete etc. and make it waterproof.
- To make the Cement based paints waterproof with better bonding.



#### Features & Benefits:-

- Bonds strongly on cement concrete, cement plastered applied surfaces.
- Improves waterproofing properties when mixed with cement.
- ✓ High acrylic polymer solid contents of 45% to give a rich mix.
- ✓ Good abrasion resistance.
- ✓ Protects against water penetration, salt & carbonation.
- ✓ Non-toxic when cured, suitable for contact with drinking water.
- ✓ Non-corrosive to steel & iron.
- Confirms to DIN 1048 standards of water permeability with zero permeability of concrete after two coats upto 15 bar water pressure.



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### **Method of Application:-**

#### **Surface preparation:-**

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.

Repair the spalled concrete portion by MCON Polymer Mortar to the depth of at least 10 mm to avoid feather edging & to provide strong bond.

Clean the concrete surface to remove any contamination. Where breaking is not possible, roughen the surface by light scrabbling or grit blasting.

For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess water prior to application.

#### As a Waterproofing Coating:-

For a waterproofing coating Mix MAGIC COAT WP: Cement in the ratio 1:1 by volume

Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to MAGIC COAT WP until the required consistency is achieved.

Brush apply 2 coats of the mix in a duration of 4-6 hours on the prepared concrete substrate.

Cover the coating with a protective screed to the desired slope & thickness.





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#### **Coverage:-**

As a waterproofing coating: 50-55 sq.ft./kg in 2 coats.



### **Shelf Life & Storage:-**

12 months in original packing if stored at room temperature i.e.25° C.



### Packing:-

5 kgs., 20 kgs, 50 kgs.



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# MCON MAGIC COAT FLEXI

SINGLE COMPONENT POLYACRYLIC WATERPROOF LIQUID MEMBRANE

#### **Product Description:-**

MAGIC COAT FLEXI is a single component, modified poly-acrylic, liquid applied coating that is composed of specially developed polymers, properly selected and graded fillers. It cures by reaction with atmospheric moisture to give a tough elastomeric waterproof membrane. MAGIC COAT FLEXI is elastomeric in nature and has good resistance to weather and sunlight. MAGIC COAT FLEXI has excellent flexibility and bonding with concrete designed for protection of all types of thermal insulation.







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### **Areas of Application:-**

- ✓ Foundations, basements & lift pits.
- ✓ Terrace Gardens, Terraces.
- ✓ Protection of insulation on Pipes & Air conditioning ducting , etc;
- Car Decks, Podiums.
- Sewage Works & Sunken portions.
- Sunk portion of bathrooms, toilets, balconies, etc.

### **Technical Specefication:**

CHARACTERISTICS	SPECIFICATIONS
Appearance	Thixotropic liquid
Color	White
Odor	Styrene acrylic
Viscosity	1.6 - 3.5 poise at 25°C
Density	1.45 - 1.52 g/cm <sup>3</sup>
Solids	70 - 75 %
Solvent	Water
Flash point	None



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### Features & Benefits:-

- Elastomeric On that accommodate cracks up to 2 mm with an elasticity of 100-150%.
- ✓ Low water permeability excellent resistance to ingress of water.
- ✓ Adhesion excellent adhesion to concrete and masonry surfaces.
- ✓ No curing required.
- ✓ Elongation at Break The elongation of the unreinforced system after 7 days cure at 68°F (20°C) when tested against BS 2782 or similar test method is typically 90%.





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### **Method of Application:**

All surfaces to be waterproofed should be sound, clean and dry and free of any laitance, grease and oil, dirt and other loose materials.

Algae and fungi must be removed physically. After treatment leave for 2-3 hrs and then wash down thoroughly with clean water and allow to dry completely.

MAGIC COAT FLEXI should be applied by brush, trowel, airless spray in two coats maintaining the spreading rate to achieve the desired DFT of 1 mm. The material consumption shall be approximately 0.2 to 0.3 kg / m<sup>2</sup> per 2 coats.

In critical applications where film thickness is paramount and desired than the stated one then two coats should be applied with quantities per coat gauged to give the specified final film thickness.

On a vertical surface if high film build up is desirable then additional coat may be required.

If the coated surface is to be further subject to abrasion then sprinkle sand on the surface when the coating is in wet condition. This will ensure protection of the membrane.

The coating will get fully cured into membrane in 7 days.

If a water ponding test is to be run, the membrane should be fully cured.





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### **Coverage:-**

As a waterproofing coating: 25 - 35 sq.ft./kg in 2 coats



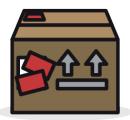
### **Shelf Life & Storage:-**

12 months in original packing if stored at room temperature i.e.25° C



### Packing:-

5 kgs., 20 kgs.

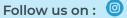


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# MCON MAGIC COAT PU

SINGLE COMPONENT POLYURETHANE WATERPROOF LIQUID MEMBRANE

#### **Product Description:-**

MCON MAGIC COAT PU is a single component, modified polyurethane, liquid applied coating that is composed of specially developed polyurethane compound, It cures by reaction with atmospheric moisture to give a tough elastomeric waterproof membrane. MCON MAGIC COAT PU is elastomeric in nature and has good resistance to weather and sunlight. MCON MAGIC COAT PU has excellent flexibility and bonding with concrete, breathing properties, water resistance, crack bridging properties, weathering and durability.







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### **Areas of Application:**

- ✓ Foundations, basements & lift pits.
- ✓ Terrace Gardens, Terraces, China mosaic surfaces.
- Sunk portion of bathrooms, toilets, balconies, etc.
- Car Decks, Podiums.
- Sewage Works & Sunken portions.



#### Features & Benefits:-

- Cold curing, cures to a tough, flexible and abrasion resistant coating.
- Bonds strongly on cement concrete, asbestos, mild steel, cement plastered applied surfaces.
- Thermal stability Irreversible chemical cure eliminates melting and flow at high temperature.
- ✓ High elasticity Cures to give a permanently flexible resilient barrier for water over a wide range of temperatures
- ✓ High chemical resistance.
- Excellent protection against corrosive soil conditions, resistance against saline water, mild acids and alkalies, high sulphate resistance.



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### **Method of Application:-**

All surfaces to be waterproofed should be sound, clean and dry and free of any laitance, grease and oil, dirt and other loose materials.

Algae and fungi must be removed physically. After treatment leave for 2-3 hrs and then wash down thoroughly with clean water and allow to dry completely.

All metal surfaces to be coated should be made clean of paint, rust and other contaminants.

MAGIC COAT PU should be applied by brush, trowel, airless spray in two coats maintaining the spreading rate to achieve the desired DFT of 1 mm.

The material consumption shall be approximately 0.3 to 0.4 kg/m² per 2 coats.

The first coat has to be diluted with 15-20 % water, mixing it thoroughly.

The second coat has to be applied perpendicular to the first coat with no dilution.

In critical applications where film thickness is paramount and desired than the stated one then two coats should be applied with quantities per coat gauged to give the specified final film thickness.

On a vertical surface if high film build up is desirable then additional coat may be required.

The coating will get fully cured into membrane in 7 days.

If a water ponding test is to be run, the membrane should be fully cured.





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### **Technical Specification:**

Properties	Results
Appearance - Colour	White, Grey, Yellow, Blue, Pink
Track Free Time @28°C	12 hours
Time to Full Cure @28°C	72 hours
Solid Content, %	70 ± 2
Elasticity	400%
Elongation @ Break	> 1365 % (ASTMD 412 - 98)
Viscosity (Spindle No: 7; RPM : 10 25 C)	50000 – 70000 CPS
Water vapour Transmission ( g/h – m² )	0.46 (ASTME 96 - 95)



### **Curing Details:**

Curing Treatment: MAGIC COAT PU membrane must be cured for a minimum of 72 hours @ 27° c before placing protection.

Where damage to the membrane is possible (by traffic, backfilling, etc) it should be protected by a cementitious screed or protection boards.



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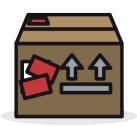
### **Coverage:-**

As a waterproofing coating: 25 - 35 sq.ft./kg in 2 coats.



### Packing:-

5 kgs., 25 kgs.



### **Shelf Life & Storage:-**

12 months in original packing if stored at room temperature i.e.25° C.





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### **Safety & Precautions:-**

Surface to be dry for application as the material is not cured in presence of moisture.

Moisture level shall not be essentially more than 0.5%.

Soft settling is likely to be observed in containers and the same shall be stirred thoroughly and carefully to achieve a homogeneous consistency.

Avoid application on very hot substrate & during a very hot and windy conditions.

Film formation may not be uniform and gradual under such circumstances & skinning on top surface may lead to formation of blisters and bubbles due to entrapped vapor from within the material.

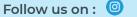


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### MCON MAGIC COAT S

SILICONE BASED WATER REPELLENT TRANSPARENT COATING

### **Product Description:-**

MAGIC COAT S is an all purpose, unique, colourless, water repellent coating based on silicone. It offers excellent resistance to positive pressures on vertical surface. It provides 100% water repellency to the external surface keeping the looks of the surface as it is. MAGIC COAT S has excellent breathing properties, water resistance, weathering durability, and excellent resistance to growth of microbial organisms.







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### **Areas of Application:-**

- MAGIC COAT S must be applied to new or old substrates that are structurally sound and well painted.
- Mineral plasters
- ✓ Concrete Blocks
- Mineral based stone structures
- Brick structures
- Mineral paints
- Mangalore, ceramic and structural tiles



#### Features & Benefits:-

- Easily penetrates all masonry structures.
- Offers resistance to high alkalinity.
- Has strong water repellent characteristics.
- ✓ Dries under normal atmospheric conditions.
- Ready to use.



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### **Method of Application:-**

#### 1. Surface Preparation:

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.

Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid feather edging & to provide strong bond.

#### 2. Coating Application:

The surface of application must be brought to a touch dry state. Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are completely filled with the coating.

Complete the application and leave to air cure for 2 days.



#### **Technical Information:**

Appearance	Clear to light yellow liquid
Page	Silane-Siloxane
Base	Sharie-Shoxarie
Specific Gravity	0.8 ± 0.05
Specific Gravity	0.0 ± 0.03
Drying Time	4 - 6 hours
Drying time	4 - 0 110u15



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### **Coverage:-**

As a waterproofing coating: 50 – 60 sq.ft./ liter in single coat.



### **Shelf Life & Storage:-**

12 months in original packing if stored at room temperature i.e.25° C



### Packing:-

1 liter, 5 liter, 20 liters.



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# MCON MAGIC COAT PU Antiroot

PU BASED LIQUID WATERPROOF COATING

### **Product Description:-**

Moon Magic Coat PU Antiroot is cold applied liquid Waterproof membrane, specially designed from a Blend of special resin and rubber, reinforced with Special water repelling fillers, minerals stabilizers and gelling agent. masonry and concrete walls, bathrooms, basement, bridges, decks, metal surfaces etc.







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#### Features:-

- Mcon Magic Coat PU Antiroot is a highly elastic product, and cures to a rubber like Membrane capable of with standing severe cases of expansion, contraction and deck movements.
- Highly resistant to oxidation, UV light and ozone because of unique additives used in compounding it. It does not crack.
- Mcon Magic Coat PU Antiroot is more durable than normal asphalt coating and last longer than most other coatings.
- Superior wetting and adhesion properties ensure durable bond and resitance to peeling, chipping, And/or separation and a longer life.
- ✓ Has the unique property of adapting itself over the irregular contours of the deck and forming a Waterproof and impervious blanket. Single component, cold applied requiring no mixing or heating; Saves labour costs.



#### Standards:-

Confirms to ASTMD-2823, D-412, D-471, E-96/BW, C-836





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### **Technical Data:-**

Appearance	Smooth, Thick Paste
Colour	Black
Specific Gravity	0.95 ± 0.10 ( ASTMD 1644 - 03 )
Solid Content	% 55 ± 2 ( ASTMD 1475 - 03)
Elongation @ Break	> 1365 % (ASTMD 412 - 98)
Viscosity (Spindle No: 7; RPM : 10 25 C)	50000 - 70000 CPS
Water vapour Transmission ( g/h – m² )	0.46 (ASTME 96 - 95)
Tensile Set recovery, %	95 %
Tear Resistance, KN/m	28 ± 10
Service Temperature, 24 hrs. @ 120 °C	No Shrinkage
Chemical Resistance, % Weight Change -10 % Salt(Sodium chloride) - 5 % Alkali (Caustic Soda) - 5 % Acid (Sulphuric)	3.0 2.0 3.0
Tack Free Time @ 35°C	10 - 12 hrs
Drying Time @ 25°C	10 - 20 min (ASTMD 1640 – 03)
Flammability & Toxicity	0.95 ± 0.1
Tensile Strength	0 .51 N/mm² (ASTMD 412 - 98)



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### **Safety Precuation:-**

As with all chemicals, caution should always be Exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapour or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, Headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start Artificial respiration. Give oxygen if breathing is laboured. Get emergency medical help.

EYECONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally Swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required

#### Coverage:-

4-5 Sq. Meter / KG

#### Packing:-

**20 KGS** 

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### MCON MAGIC SCREED

WHITE CEMENTITIOUS SCREED

### **Product Description:-**

MCON Magic Screed consists of a well graded fibre reinforced cementitious material with excellent bonding with Cement substrates and tough waterproofing characteristics. The product comes in powder form to be mixed with water and which may be laid as screed on well prepared coated or uncoated substrates. The mixed screed is colored grey. MCON Magic Screed is used for covering waterproof coating in exposed areas or as a independent waterproof screed. MAGIC SCREED has excellent flexibility, breathing properties, water resistance, crack bridging properties, weathering durability, and excellent resistance to growth of microbial organisms.







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#### Uses:-

- MCON Magic Screed is used for screeding on concrete and masonry walls, dams, wall and floor junctions.
- Ideal for use as Sandwich model waterproofing with Magic Coat 2K and as a protection screed for Magic Coat PU.

#### Features & Benefits:-

- High early strength and rapid strength gain.
- Weather resistant.
- Can be used in damp conditions.
- Non shrink and non metallic.
- ✓ Blocks water seepages and also controls dampness.

### **Technical Specification:**

Physical Appearance :	Grey paste (mixed)
Pot Life @30°C :	30 - 45 mins. (Will vary with temperature)
Screed Thickness:	Min.: 10 mm Max.: 50 mm
Initial Setting Time :	8 hours
Final Setting Time :	48 hours
Curing Time :	3 days ponding
Compressive Strength @ 28 Days :	20 N/mm² / Mpa



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### Coverage & Mixing Ratio:-

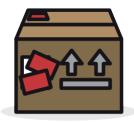
Water powder Ratio: 0.16 i.e. 4 liters of water for 25 kg. bag.

Coverage: 18 sq. feet per 25 kg. bag for average thickness of 10 mm.



### Packing:-

MCON Magic Screed is supplied in 25 kg. pack.





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### Health & Safety :-

MCON Magic Screed is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately.



### **Shelf Life & Storage:-**

MCON Magic Screed has a shelf life of 12 months from date of manufacture when kept at a temperature between 5° C to 45° C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

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# MCON MAGIC COAT INSTANT

A FAST SETTING WATER PLUGGING COMPOUND

#### **Product Description:-**

MCON Magic Coat Instant consists of a fast setting cementitious material with excellent bonding with Cement substrates. The product comes in powder form to be mixed with water and which may be poured or pumped into suitably prepared leakage holes. The mixed grout is colored grey. MCON Magic Coat Instant is used for the plugging and instant stoppage of water leakages so that treatment or application can be done on them. Its also used for fixing of grout nozzles for injection grouting.







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### Features & Benefits:-

- ✓ High early strength and rapid strength gain.
- Weather resistant.
- Can be used in damp conditions and also under water.
- ✓ Fast setting and self curing.
- Non shrink and non metallic.
- Stops running water instantly.



#### **Usage:-**

- MCON Magic Coat Instant is used for stopping running water and seepage through concrete and masonary walls, dams, wall and floor junctions.
- It can be used as a fixing grout around pipes or nozzles.





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### **Technical Specification:**

Physical Appearance:	Grey paste (mixed)
Pot Life @ 30°C:	1 - 5 mins. ( Will vary with temperature)

### Packing:-

MCON Magic Coat Instant is supplied in 1 kg. and 5 kg. pack



#### **Shelf Life & Storage:-**

MCON Magic Coat Instant has a shelf life of 12 months from date of manufacture when kept at a temperature between 5° C to 45° C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.





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### **Health & Safety:-**

MCON Magic Coat Instant is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately. Full health and safety data are given in Product Safety Data Sheet.



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