



MCON RASAYAN PVT. LTD.

Trusted Partners In Construction Chemicals



MCON LW

2 in 1 INTEGRAL LIQUID WATERPROOFING
COMPOUND FOR PLASTER AND CONCRETE

Product Description :-

MCON LW is an integral, high performance waterproofing additive based on high performance polymers, which reduces the permeability throughout the depth of concrete. MCON LW when mixed in concrete reacts with the free lime during the hydration process to form a hydrophobic coating on the pores and voids of concrete which reduce the capillary action. This minimises the absorption of water. MCON LW causes considerable reduction in capillary pores within the concrete. MCON LW helps in reducing Permeability & improving concrete durability.

This products are certified by :-





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Usage :-

Can be used in Concreting of-

- ✓ Basements
- ✓ Roof slabs and screeds
- ✓ Water tanks & water retaining structures
- ✓ External plastering
- ✓ Bathrooms and balconies
- ✓ Sumps and drains
- ✓ In mortar during Brick bat coba application

Features & Benefits :-

- ✓ **Durability** – Increases durability by improving waterproofing of concrete.
- ✓ **Permeability** – It reduces the permeability as it disrupts the capillaries within concrete
- ✓ **Strength** – The setting time and compressive strength of the concrete remains within the specification limits.
- ✓ **Shrinkage** – Reduces shrinkage crack development in plaster & concrete.
- ✓ **Workability** – Improves workability of freshly mixed cement concrete.
- ✓ Ensures perfect watertight structure.
- ✓ Reduce mortar dropping, when used in plaster.
- ✓ Chloride free.



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- ✓ Increase plasticity of concrete, thus it flows easily without increase in water and better compaction is achieved
- ✓ Compatible with all types of OPC & PPC.
- ✓ Liquid nature ensures homogeneous mixing.

Method of Application :-

Load cement & aggregates to concrete mixer as per the designed mix.

Mix in dry state for 1–2 minutes.

Start addition of 75–80% mixing water & mix for 2-3 minutes.

MCON LW is added as per the dosage of 200 ml. Per bag of cement into the remaining gauging water, Then add to concrete mixer & mix for another 2 minutes.

Now the mix is ready for the subsequent laying.





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Technical Information :-

Appearance:	Free flowing liquid
Colour:	Wine Red / Dark Brown
Sp. gr. @ 250C:	1.05 - 1.070
Non volatile content:	13.5 - 14.5%
pH value:	7 to 8
Setting time as per IS : 2645:	30 - 600 min
Chloride content IS : 2645:	Max. 1.00%

Dosage :-

200 ml per 50 kg bag of cement



Technical Support :-

MCON provides a technical advisory service for onsite assistance and advice on admixture selection, evaluation trials and dispensing equipment.

Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.



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Precautions & Limitations :-

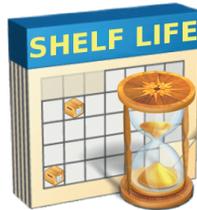
Do not add MCON LW directly to dry cement & aggregate mix.

Maintain water-cement ratio to ensure better results.

Do not increase the dosage of MCON LW above prescribed limits.

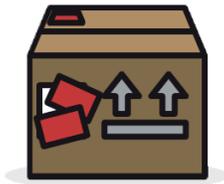
Storage and Shelf life :-

12 months from manufacture in original unopened bags if stored in dry conditions.



Packing :-

200 ml, 1, 5, 20 & 50 litres



**(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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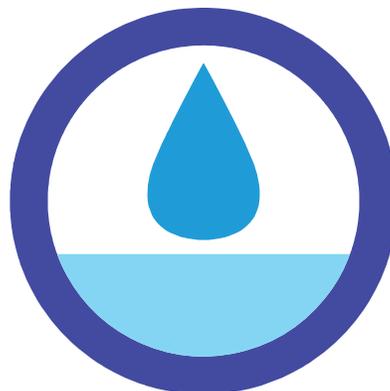
MCON LWP

INTEGRAL WATERPROOFING POWDER
FOR CONCRETE AND PLASTER

Product Description :-

MCON LWP is a fine cementitious powder to be mixed with concrete and cement mortar mixes to improve their workability, increase the yield and also make them waterproof. MCON LWP is a traditional admixture to fill natural pores within the concrete or mortar matrix to reduce porosity and improve water tightness.

This products are certified by :-





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Usage :-

To reduce permeability of concrete and sand/cement mortar for use in:

- ✓ Basements
- ✓ Roof slabs and screeds
- ✓ Water tanks & water retaining structures
- ✓ External plastering
- ✓ Bathrooms and balconies
- ✓ Sumps and drains
- ✓ In mortar during Brick bat coba application

Features & Benefits :-

- ✓ **Easy to use** – Simple application familiar to site operations.
- ✓ **High quality**– It reduces the permeability as it disrupts the capillaries within concrete
- ✓ **Workability** – Improves workability.
- ✓ Ensures perfect watertight structure.
- ✓ Reduce mortar dropping,when used in plaster.
- ✓ Chloride free.





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Method of Application :-

Dosage: With normal concrete and sand/cement mortar mixes use 500GM of MCON LWP for every 50 kg bag of cement.

Hand mixing: Measure out the required quantity of sand/aggregate, followed by the cement. Sprinkle the correct quantity of MCON LWP evenly over the cement .

Mix the dry materials until an even color is obtained. Add the normal measured quantity of water and mix as usual.

Machine mixing : Add the measured quantity of sand/aggregate into the drum and mix continuously.

Add the cement and sprinkle in correct quantity of MCON LWP at the same time. Mix the dry materials for 2 minutes. Add the normal measured quantity of water and mix to completion.





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Technical Support :-

MCON provides a technical advisory service for onsite assistance and advice on admixture selection, evaluation trials and dispensing equipment.

Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.



Precautions Health and Safety :-

MCON LWP is non toxic and inflammable. However it should not be swallowed or allowed to come in to contact with the skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water.

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately.

Do not induce vomiting.



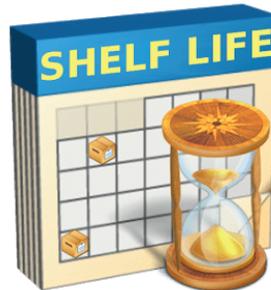


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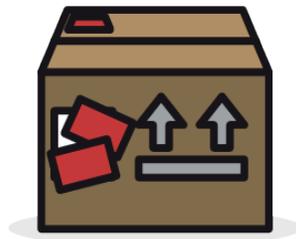
Storage and Shelf life :-

MCON LWP has a minimum shelf life of 12 months in unopened packs when stored under normal warehouse conditions.



Packing :-

MCON LWP is supplied in 500 gm and 25 kg bags.



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MCON SRP 50

MID RANGE WATER REDUCING
& SLUMP RETAINING ADMIXTURE

Product Description :-

MCON SRP 50 is a water reducing and slump retaining plasticizer for free flowing concrete in floors, slabs, foundations, walls and columns and other structural elements. It is mid-range water reducing admixture which is based on the blended PCE technology. Concrete produced with MCON SRP 50 admixture achieves good strength after initial slump retention.





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Areas of Application :-

- ✓ High Early strength concrete upto M 45 Grade
- ✓ On site mixed concrete
- ✓ Precast concrete



Features & Benefits :-

- ✓ Improved dispersion properties.
- ✓ High water reduction..
- ✓ Improved durability.
- ✓ Reduces finishing labor costs due to optimized set times.
- ✓ Faster turnover of forms due to accelerated early strength development.
- ✓ Used in fast track construction.
- ✓ Minimizes the need for slump adjustments at the jobsite.



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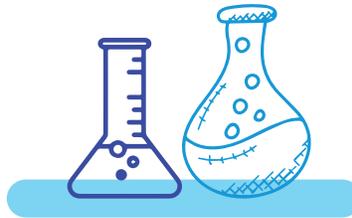
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Method of Application :-

MCON SRP 50 can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of MCON SRP 50 to dry aggregate or cement is not recommended.

To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 120 seconds is recommended.



Technical Information :-

Properties	Values
Colour	Light Reddish Liquid
Chemical Base	Aqueous Solution of modified Poly Carboxylate
State	Liquid
Density	1.01 ± 0.03 g/cm ³
Chloride Content	<1%
Shelf life	Approx. 1 year from date of production if stored properly



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Dosage :-

0.4% to 1.0% to the weight of Cementitious content



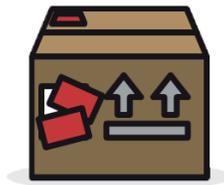
Health & Safety :-

MCON SRP 50 is non-toxic. However, splashes on the skin should be washed well with water and in contact with eye occurs, wash well with water and seek medical advice.



Packing :-

250 kgs. drum



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MCON SRP 100

HIGH RANGE WATER REDUCING & SLUMP
RETAINING ADMIXTURE

Product Description :-

MCON SRP 100 is a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements. It is full-range water-reducing admixture which is based on the next generation of polycarboxylate technology. Concrete produced with MCON SRP 100 admixture achieves good strength after initial slump retention. MCON SRP 100 admixture also strikes the perfect balance between workability retention and setting characteristics in order to provide efficiency in placing and finishing concrete.



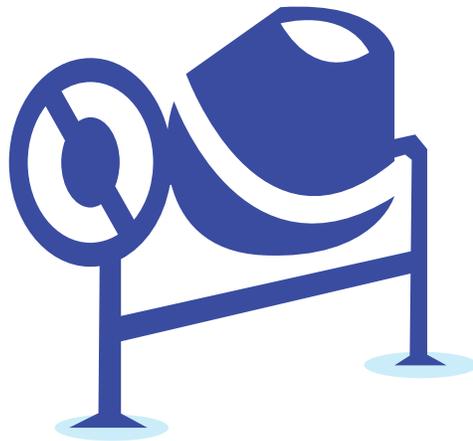


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Areas of Application :-

- ✓ High Early strength concrete upto M 45 Grade
- ✓ Ready mixed concrete
- ✓ Precast concrete
- ✓ Pre stressed concrete
- ✓ Pumped concrete



Features & Benefits :-

- ✓ Improved dispersion properties.
- ✓ High water reduction..
- ✓ Improved durability.
- ✓ Reduces finishing labor costs due to optimized set times.
- ✓ Faster turnover of forms due to accelerated early strength development.
- ✓ Used in fast track construction.
- ✓ Minimizes the need for slump adjustments at the jobsite.



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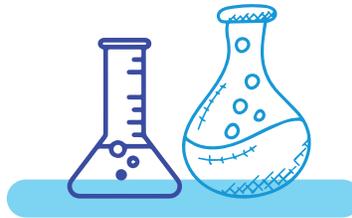
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Method of Application :-

MCON SRP 100 can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of MCON SRP 100 to dry aggregate or cement is not recommended.

To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 120 seconds is recommended.



Technical Information :-

Properties	Values
Colour	Light Brown Liquid
Chemical Base	Aqueous Solution of modified Poly Carboxylate
State	Liquid
Density	1.15 ± 0.03 g/cm ³
Chloride Content	<1%
Shelf life	Approx. 1 year from date of production if stored properly



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Test done on Grade of Concrete M 35 :-

Mix	Dosage per bag of cement MCON SRP 100	Water:Cement Ratio	Slump in mm	Slump in mm		
				30 mins	60 mins	90 mins
Control	0	0.50	70	38.0	27.0	10.0
MCON SRP 100	0.300 kgs	0.50	Collapse	150	125	110
MCON SRP 100	0.300 kgs.	0.40	130	120	105	90

Dosage :-

0.4% to 1.5% to the weight of Cementitious content



Health & Safety :-

MCON SRP 100 is non-toxic. However, splashes on the skin should be washed well with water and in contact with eye occurs, wash well with water and seek medical advice.

Packing :-

250 kgs. drum

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MCON SRP 200

PCE BASED HIGH RANGE WATER
REDUCING & SLUMP RETAINING ADMIXTURE

Product Description :-

MCON SRP 200 is a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements. It is a high range slump retaining admixture which is based on the next generation of polycarboxylate technology. Concrete produced with MCON SRP 200 admixture achieves significantly higher early age strength than first generation polycarboxylate high range water-reducing admixtures. MCON SRP 200 admixture also strikes the perfect balance between workability retention and setting characteristics in order to provide efficiency in placing and finishing concrete.





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Areas of Application :-

- ✓ High Early strength concrete upto M 60 Grade
- ✓ Ready mixed concrete
- ✓ Precast concrete
- ✓ Pre stressed concrete
- ✓ Pumped concrete



Features & Benefits :-

- ✓ Improved dispersion properties.
- ✓ High slump retention to give flowable concrete even after 120 minutes and more
- ✓ Improved durability.
- ✓ Very High Early strength.
- ✓ Faster turnover of forms due to accelerated early strength development.
- ✓ Used in fast track construction.
- ✓ Minimizes the need for slump adjustments at the jobsite.
- ✓ Reduces finishing labor costs due to optimized set times.



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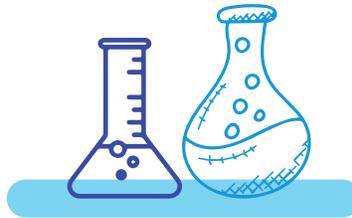
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Method of Application :-

MCON SRP 200 can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added.

The addition of MCON SRP 200 to dry aggregate or cement is not recommended.

To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 180 seconds is recommended.



Technical Information :-

Properties	Values
Colour	Light Yellow Liquid
Chemical Base	Aqueous Solution of Poly Carboxylate
State	Liquid
Density	1.1 ± 0.03 g/cm ³
Chloride Content	<1%
Shelf life	Approx. 1 year from date of production if stored properly



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Dosage :-

0.3% to 1.5% to the weight of Cementitious content



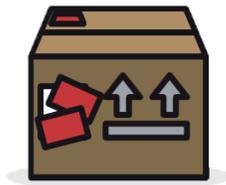
Health & Safety :-

MCON SRP 200 is non-toxic. However, splashes on the skin should be washed well with water and in contact with eye occurs, wash well with water and seek medical advice.



Packing :-

250 kgs. drum



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MCON SUPER ADD

PLASTICISED EXPANDING GROUT
ADDITIVE

Product Description :-

MCON SUPER ADD is used as a cementitious grout additive where a low water/cement ratio and a medium expansion are required. The material is a combination of a plasticizing agent, and a gas producing expansive medium, with suitable fillers; which generates gas during the hydration process before the initial set takes place, counteracts the natural settlement and shrinkage of the grout. Stability and cohesion of grout are greatly increased. The selected fillers used, ensure uniform mixing. MCON SUPER ADD gives controlled expansion to avoid excess pressure built up but sufficient pressure is developed to provide complete contact of the grout with the bearing surfaces, without voids.





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Features & Benefits :-

- ✓ Improved fluidity so ideal for injection grouting.
- ✓ Increased cohesion.
- ✓ Volume expansion in the wet state to develop non-shrink property.
- ✓ Chloride free - does not attack reinforcement or prestressed cables.
- ✓ Non-shrink property ensures retention of original volume.
- ✓ Reduced water/cement ratio ensures low permeability and long term performance in service.
- ✓ High compressive strength in the range of 40N / mm² after 28 days, when using good OPC.
- ✓ Facilitates the production of a cohesive grout.

Usage :-

MCON SUPER ADD is used for Bed grouting, non-shrink in filling and jointing, joint filling between precast concrete units, grouting of voids in structural members, grouting of pipe joint and normal repair work where shrinkage must be avoided.





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TECHNICAL DETAILS :-

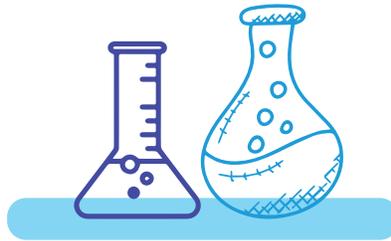
Nature : Cementitious grey powder

Compressive Strength : The plasticizing action of MCON SUPER ADD allows reduction of the water cement ratios of cementitious grouts whilst maintaining flow properties.

Chloride Content : Nil

Time For Expansion : 15 minutes - 2 hours.

Temperatures : Above 20° C may slightly reduce these times.



Methods of Application :-

MIXING :-

For best results a mechanically powered grout mixer must be used. For quantities upto 50kg, a slow speed drill fitted with a high shear paddle is suitable. Large quantities will require a high volume drum mixer. It is essential that machine mixing capacity and labor availability is adequate to enable the grouting operation to be carried out continuously. The cement (and sand if required) shall be slowly added to MCON SUPER ADD. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

APPLICATION

It shall be ensured that areas to be grouted are clean, sound, and then pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process.



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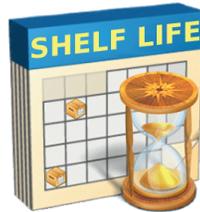
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CURING

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application or wet hessian.

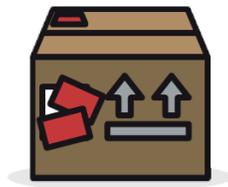
Storage and Shelf life :-

12 months from manufacture in original unopened bags if stored in dry conditions.



Packing :-

200 gms Pouch , 25 kg in moisture-resistant bags.



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