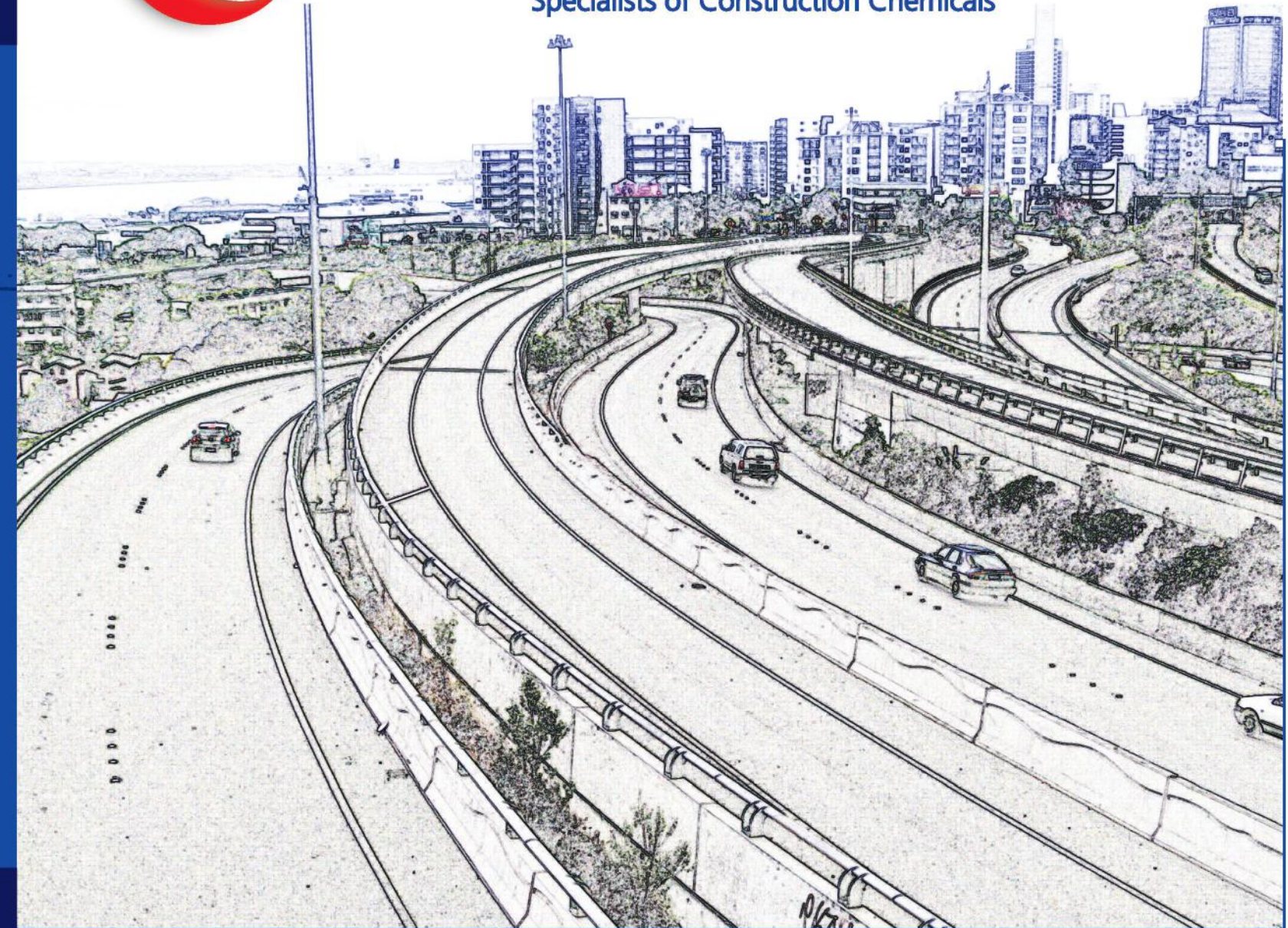




# UNIROCK CHEMICALS PVT. LTD.

ISO 9001:2015 Certified

Specialists of Construction Chemicals

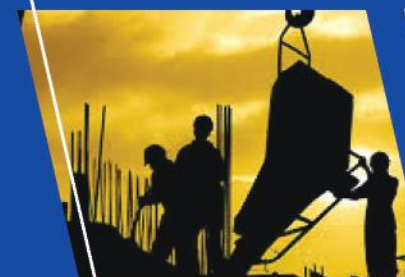


SOLUTION PROVIDERS FOR THE CONSTRUCTION INDUSTRY

Reg. Office: Plot No. 208, HSIIDC, Hisar Road Rohtak-124001 (HR)

Ph. : 9416050147, 9971497659

Email : [unirockchemicalspvtltd@gmail.com](mailto:unirockchemicalspvtltd@gmail.com)





## ABOUT US

*Unirock Chemicals Pvt. Ltd., is a private limited company engaged in manufacturing of construction chemicals. Our highly specialized team is dedicated to provide world class products. We believe in customer centric approach and thus our efforts are aimed at providing quality products and services.*

## VISION

*Unirock Chemicals Pvt. Ltd. wants to be a pioneer construction chemical manufacturer with world class products and solutions to be provided globally. Customer satisfaction would remain the key goalpost of all our endeavours.*

UNITING THE NATION WITH INNOVATION & TRUST

## SECTORS WE SERVE

Highway Projects, Residential / Office Space / Commercial Developments and numerous other segments of Infrastructure Development in the country.

## PRODUCT CATEGORIES

Different Grades of Super-plasticisers – (Naphthalene Base and PC Base), Water-proofing Compounds, Curing Compounds, Shuttering Oil (Mould Release Agent).





## SERVICES

To provide value added services, excellent workmanship and utmost loyalty to our clients and associates. All our efforts are aimed at providing the quality services to the clients.

### Construction Chemicals

Manufacturing the entire range of Post and Pre Construction related chemicals used at various stages of infrastructure development and serving various sectors such as Roads & Highway Projects, Ports, Housing & Real Estate, Commercial developments and many others.

### Quality Management

Design mix, checking all quality aspects of the concrete like strength, slump, checking all raw materials on regular basis and maintaining the site-laboratories with our dedicated team of civil engineers and professionals.

## RESEARCH & DEVELOPMENT

UNIROCK  
CHEMICALS

The key to our success is our ability to generate innovative products and capabilities at the forefront of the industry. R&D is the backbone of all URC products. At URC, we are shaping the future development of the existing products through a constant stream of innovations. State-of-the-art manufacturing and testing facilities help us to deliver world class products to our customers at the most competitive pricing. Innovation, efficiency and efficacy drive our operations at all levels of functioning.



## OUR VALUABLE CLIENTS



- Sadbhav Engineering Limited
- Apco Infratech Private Limited
- D.R. Agrawal Infracom Pvt. Ltd.
- Patel Infrastructure Limited
- Gawar Construction Limited
- HG Infra Engineering Limited
- Ashoka Buildcon Ltd.
- Eagle Construction Company
- Shiv Build India Private Limited
- Shivalaya Construction Company
- Inderdeep Construction Company
- M.K Petro Products India Pvt. Ltd.
- MAP Projects
- Modi Construction Company
- Rajindra Infrastructure Pvt. Ltd
- Himalayan Infracorp Pvt. Ltd
- Ram Kumar Contractor

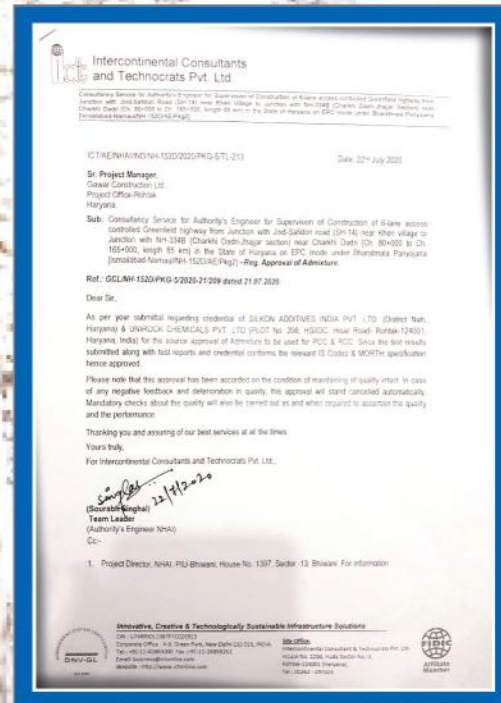
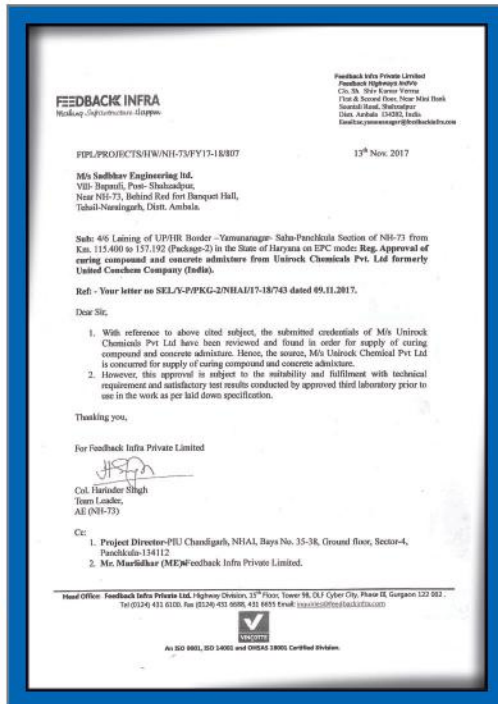
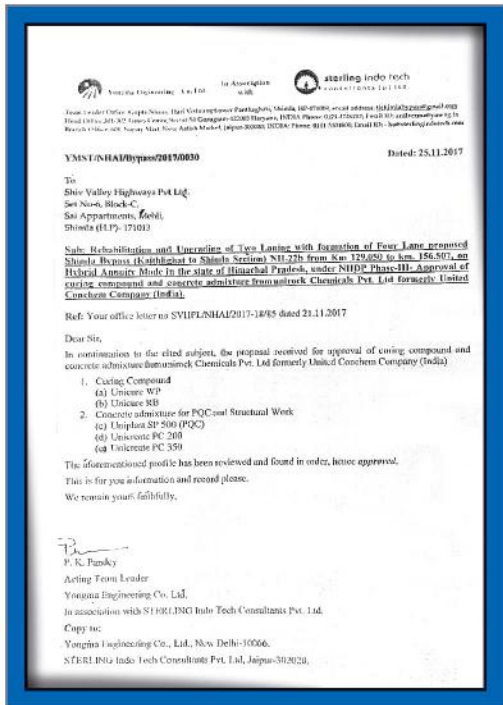
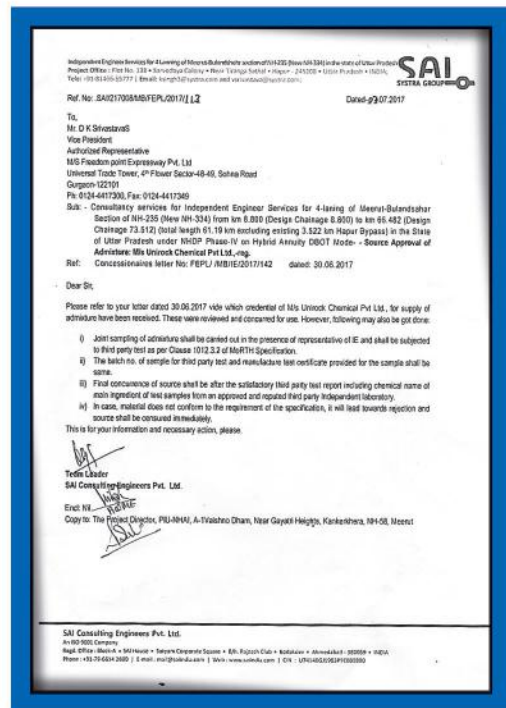
- Ved Kumar Sharma Contractor
- Baba Nomi Nath Trading Co.
- Rohan Tiles
- Ajay Enterprises
- Gahlawat Construction Company
- Swariya Construction Company
- Anp Buildcon
- Neel Kanth Rock Mineral Company
- Nav Nirman SSR
- Balaji Construction
- Ramjee Construction
- Krishna Construction Company
- Shiv Shakti Construction
- RK Infra, Gurgaon
- RK RMC
- Raj Krishna Construction Company, Gurgaon
- R.G. Colonizers Pvt Ltd, Gurgaon

- SAR Buildcon
- SAR Buildcon Pvt Ltd
- SCL Green concrete Corporation, Derabasi
- Shaila Enterprises, Gurgaon
- Shiva Construction
- SPM Builders Pvt Ltd
- Shri Ram Readymix Concrete, Gurgaon
- Shree Balaji Buildmate Pvt Ltd
- SRS RMC, Gurgaon
- Superb Star Promoters Pvt Ltd, Gurgaon
- Techno Easycrrete Pvt Ltd, Sahibabd
- Techno Easycrrete Pvt Ltd Bahadurgarh
- TRUE RMC
- VRC Infrastructure (India) Pvt Ltd
- Vijay Nirman Company Pvt Ltd
- VK Readymix Concrete
- And many More.....



# OUR CLIENT APPROVALS

UNIROCK  
CHEMICALS



CIN No. U74899DL 1995G01068150  
दूरभाष Tel.: 23417910/12  
फैक्स Fax : 23417921

## दिल्ली मेट्रो रेल कॉर्पोरेशन लि DELHI METRO RAIL CORPORATION LTD.

(भारत सरकार एवं दिल्ली सरकार का संयुक्त उपक्रम)  
(A JOINT VENTURE OF GOVERNMENT OF INDIA AND GOVT. OF DELHI)

No. DMRC/Corp/20/Design/001/99  
August 16, 2017

**Unirock Chemicals Pvt. Ltd.**  
Plot No. 208, HSIIDC, Hisar Road,  
Rohtak - 124001 (Haryana)

**Kind Attn:- Mr. Umang Malik, Director (Business Development)**

**Sub:- Approval to M/s Unirock Chemicals Pvt. Ltd. as a manufacturer vendor of construction chemicals for Delhi Metro Rail Projects.**

**Ref:- Your letter no. UCC/64/2017, dated July 24, 2017**

Dear Sir,

This has reference to your request as cited above regarding the approval for supplying construction chemicals for various Delhi Metro Rail projects.

We have gone through all the documents submitted by you and it is found that M/s Unirock Chemicals Pvt. Ltd., an ISO 9001:2008 certified company, is a manufacturer of construction chemicals and has supplied its products to various construction projects across India.

In view of above, we would like to inform you that since our ongoing project (Phase-II) has already reached an advanced stage of completion, we may consider M/s Unirock Chemicals Pvt. Ltd. for our upcoming project (Phase-IV) for supplying of construction chemicals subject to the suitability and fulfillment with the technical requirements.

The quality of the product/products should meet the required strength and other DMRC specifications. The Corporation wholly reserves the rights to revoke/suspend the enlistment on the basis of review any time.

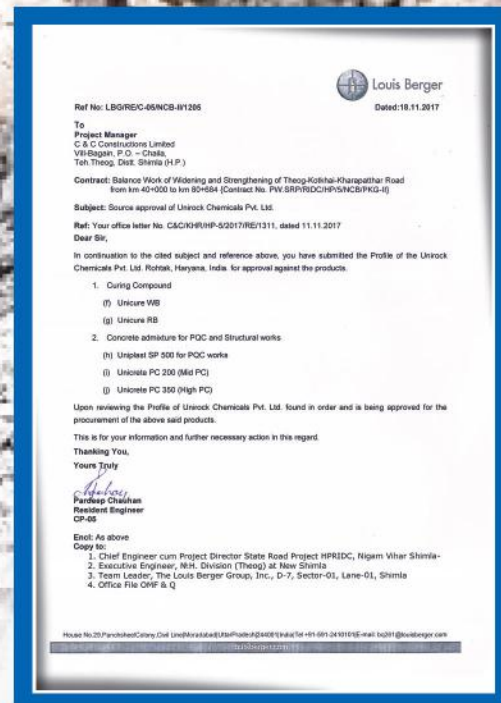
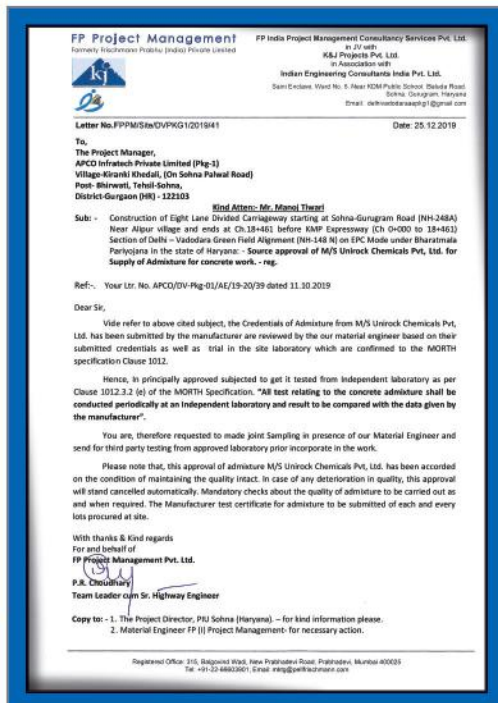
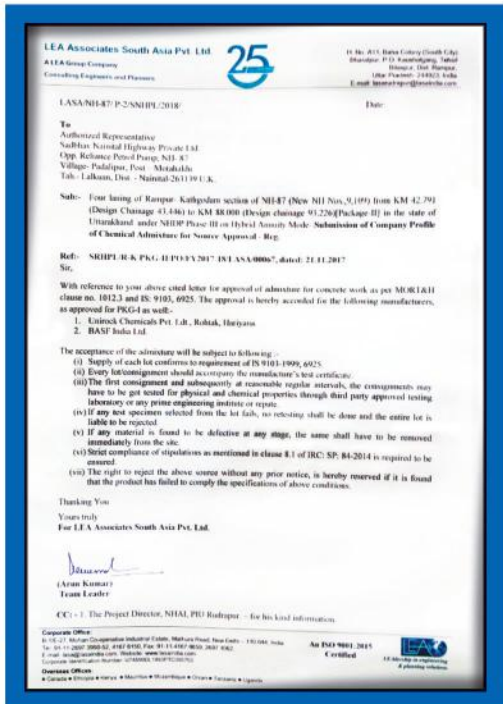
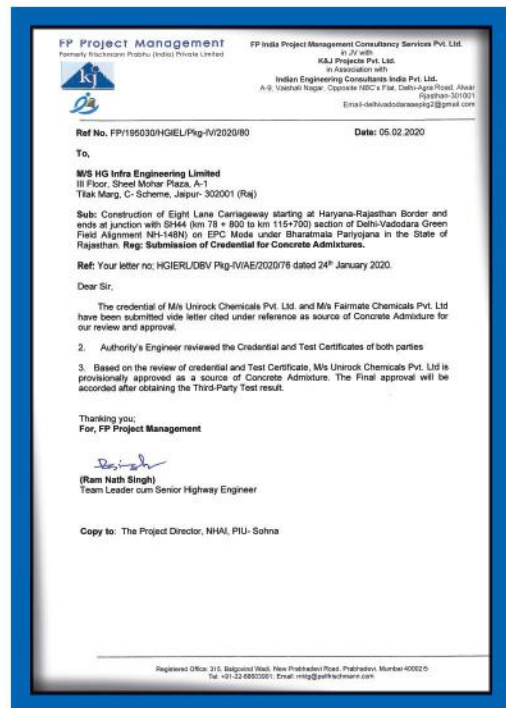
Mandatory checks about the quality will also be carried out as and when required so as to satisfy the site about the quality and the performance.

The above authorization, however, does not bind the Corporation in anyway for use of your products/services in the works.

Yours faithfully,

**(Rajan Kataria)**  
Executive Director/Technical  
RAJAN KATARIA  
Executive Director (Technical)  
Delhi Metro Rail Corporation Ltd.  
Metro Bhawan, Fire Brigade Lane,  
Barakhamba Road, New Delhi-110001

(मेट्रो भवन, फायर ब्रिगेड लेन, बाराखम्बा रोड, नई दिल्ली-110001)  
Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001





# TEST CERTIFICATES



**Interstellar Testing Centre Pvt. Ltd.**  
(Formerly International Testing Centre)  
(A Government Approved Test House)  
86, Industrial Area, Phase-4, Panchsala-134109 (Haryana)  
Phone : (0) 0172-2561543, 2565525  
Visit us : www.itclabs.com E-mail : customersupport@itclabs.com

**TEST REPORT**  
Document QF: 2501  
Page 2 of 2

NABL Accredited ISO 9001:2008 Certified Laboratory  
Issued to: Sudhar Engineering Limited  
Village & Post: Shahadpur, Near NH-73,  
Chandigarh Road, Behind Red Fort Bungalow  
Huk, Tehsil: Naraingarh, Distt. Ambala-134202

Sample Reg. No. : R-07-12-02  
Sample Reg. Date : 07.12.2017  
Report No. : I-07D1217  
Dated : 12.12.2017  
Ref. No.: SEL/GEN/YP/KG-2/PY17-18/409  
Request Dated : 05.12.2017

**PART C: TEST RESULTS**  
Description: One no. Sample of Admixture (Unigrout Sp-500 PQG)

S. No.	Test parameter	Requirements	Test method	Test results
1.	PH Value,	Min.6	IS-9103-1999	7.16
2.	Ash Content, %	Within 1% of the Value stated by the manufacturer	IS-9103-1999	13.96
3.	Chloride ion Content, %	Within 10% of the Value or within 0.2 % whichever is greater as stated by the manufacturer	IS-6925-1973	0.007
4.	Dry material Content, %	Within 3% of the Value stated by the manufacturer	IS-9103-1999	41.01
5.	Relative density,	Within 0.02 of the Value stated by the manufacturer	IS-9103-1999	1.23

**PART D: REMARKS:** The above submitted sample of Admixture (Unigrout Sp-500 PQG) Conforms to as Per IS: 9103-1999 RA: 2013 with respect to above tests.

**\*\*End of Report\*\***

Reviewer1: [Signature] Reviewer2: [Signature]  
[Tech. Manager]

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Ref. No.: SEL/GEN/YP/KG-2/PY17-18/409  
Request Dated : 05.12.2017

**PART C: TEST RESULTS**  
Description: One no. Sample of Admixture (Unigrout PC-350)

S. No.	Test parameter	Requirements	Test method	Test results
1.	PH Value,	Min.6	IS-9103-1999	7.35
2.	Ash Content, %	Within 1% of the Value stated by the manufacturer	IS-9103-1999	2.42
3.	Chloride ion Content, %	Within 10% of the Value or within 0.2 % whichever is greater as stated by the manufacturer	IS-6925-1973	0.006
4.	Dry material Content, %	Within 3% of the Value stated by the manufacturer	IS-9103-1999	32.84
5.	Relative density,	Within 0.02 of the Value stated by the manufacturer	IS-9103-1999	1.11

**PART D: REMARKS:** The above submitted sample of Admixture (Unigrout PC-350) Conforms to as Per IS: 9103-1999 RA: 2013 with respect to above tests.

**\*\*End of Report\*\***

Reviewer1: [Signature] Reviewer2: [Signature]  
[Tech. Manager]

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Report No. : I-07D1217  
Dated : 12.12.2017  
Ref. No.: SEL/GEN/YP/KG-2/PY17-18/409  
Request Dated : 05.12.2017

**PART C: TEST RESULTS**  
Description: One no. Sample of Admixture (Unigrout PC-200)

S. No.	Test parameter	Requirements	Test method	Test results
1.	PH Value,	Min.6	IS-9103-1999	7.09
2.	Ash Content, %	Within 1% of the Value stated by the manufacturer	IS-9103-1999	1.92
3.	Chloride ion Content, %	Within 10% of the Value or within 0.2 % whichever is greater as stated by the manufacturer	IS-6925-1973	0.005
4.	Dry material Content, %	Within 3% of the Value stated by the manufacturer	IS-9103-1999	22.21
5.	Relative density,	Within 0.02 of the Value stated by the manufacturer	IS-9103-1999	1.07

**PART D: REMARKS:** The above submitted sample of Admixture (Unigrout PC-200) Conforms to as Per IS: 9103-1999 RA: 2013 with respect to above tests.

**\*\*End of Report\*\***

Reviewer1: [Signature] Reviewer2: [Signature]  
[Tech. Manager]

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Request Dated : 05.12.2017

**PART C: TEST RESULTS**  
Description: One no. Sample of Curing Compound (Unigrout RB)

S. No.	Test Parameter	Requirements as per (ASTM C309-01)	Test Results
1.	Appearance	white Colour liquid	white Colour liquid
2.	Relative Density at 27°C	0.810 - 0.840	0.828
3.	Curing Efficiency	90%	93
4.	Water Loss kg/m <sup>2</sup>	Max 0.55 kg/m <sup>2</sup> in 72 hrs.	0.46
5.	Drying time	Max 240 minutes	120
6.	Reflection Properties Day light Reflectance	Min. 60%	63
7.	Non Volatile Content (% by Mass)	Max. 15%	12.00
8.	Long Term setting Test	-24	-2
9.	Flash Point °C	Min 10°C	43

**PART D: REMARKS:** The above submitted sample of Curing Compound (Unigrout RB) Conforms to as Per ASTM C309-01 with respect to above tests.

**\*\*End of Report\*\***

Reviewer1: [Signature] Reviewer2: [Signature]  
[Tech. Manager]

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Ref. No.: SEL/GEN/YP/KG-2/PY17-18/409  
Request Dated : 05.12.2017

**PART C: TEST RESULTS**  
Description: One no. Sample of Curing Compound (Unigrout WB)

S. No.	Test Parameter	Requirements as per (ASTM C309-01)	Test Results
1.	Appearance	white Colour liquid	white Colour liquid
2.	Relative Density at 27°C	0.810 - 0.840	0.830
3.	Curing Efficiency	90%	93
4.	Water Loss kg/m <sup>2</sup>	Max 0.55 kg/m <sup>2</sup> in 72 hrs.	0.46
5.	Drying time	Max 240 minutes	132
6.	Reflection Properties Day light Reflectance	Min. 60%	66
7.	Non Volatile Content (% by Mass)	Max. 15%	11.00
8.	Long Term setting Test	-24	5
9.	Flash Point °C	Min 10°C	40

**PART D: REMARKS:** The above submitted sample of Curing Compound (Unigrout WB) Conforms to as Per ASTM C309-01 with respect to above tests.

**\*\*End of Report\*\***

Reviewer1: [Signature] Reviewer2: [Signature]  
[Tech. Manager]

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**Unirock Chemicals Pvt Ltd**  
Specialists of Construction Chemicals  
Plot No. 208, HSIDC, Hsiao Road, Rohtak-124001  
E-mail: unirockchemicalspvtltd@gmail.com

**TEST CERTIFICATE**

Product Name : Unicrete PC350  
Batch No. : ROK20200401  
Base : Poly Carboxylate Ether  
Appearance : A Light brown Colour Liquid  
Storage Condition : Cool & Dry, Away from direct sun light  
Month of MFG : APR-2020  
Expiry Date : 12 months from the date of mfg.

SR.NO.	PARAMETER	OBSERVATION	LIMITS AS PER IS 9103 : 1999 Reaffirmed 2004 Edition 2.2- (2007-08)
01	Relative Density	1.110	±0.02 of the value stated by the manufacturer
02	pH value	6.51	Min. 6.00
03	Dry Material Content (% by weight)	37.49	± 5.0% of the value stated by the manufacturer
04	Chloride content (% by weight)	NIL	Within 10% of the value or within 0.2% whichever is greater as stated by the manufacturer
05	Ash Content (% by weight)	2.44	± 5.0% of the value stated by the manufacturer

Certified that the above material Complies with the specification.

This is computer generated report and does not require any signature.



**Unirock Chemicals Pvt Ltd**  
Specialists of Construction Chemicals  
Plot No. 208, HSIDC, Hsiao Road, Rohtak-124001  
E-mail: unirockchemicalspvtltd@gmail.com

**TEST CERTIFICATE**

Product Name : Unicrete PC 300 PQG  
Batch No. : ROK20200401  
Base : Poly Carboxylate Ether  
Appearance : A brown Colour Liquid  
Storage Condition : Cool & Dry, Away from direct sun light  
Month of MFG : APR-2020  
Expiry Date : 12 months from the date of mfg.

SR.NO.	PARAMETER	OBSERVATION	LIMITS AS PER IS 9103 : 1999 Reaffirmed 2004 Edition 2.2- (2007-08)
01	Relative Density	1.108	±0.02 of the value stated by the manufacturer
02	pH value	6.23	Min. 6.00
03	Dry Material Content (% by weight)	32.8	± 5.0% of the value stated by the manufacturer
04	Chloride content (% by weight)	NIL	Within 10% of the value or within 0.2% whichever is greater as stated by the manufacturer
05	Ash Content (% by weight)	2.8	± 5.0% of the value stated by the manufacturer

Certified that the above material Complies with the specification.

This is computer generated report and does not require any signature.

**Unirock Chemicals Pvt Ltd**  
Specialists of Construction Chemicals  
Plot No. 208, HSIDC, Hsiao Road, Rohtak-124001  
E-mail: unirockchemicalspvtltd@gmail.com

**TEST CERTIFICATE**

Product Name : Unicrete PC200  
Batch No. : ROK20200401  
Base : Poly Carboxylate Ether  
Appearance : A Light brown Colour Liquid  
Storage Condition : Cool & Dry, Away from direct sun light  
Month of MFG : APR-2020  
Expiry Date : 12 months from the date of mfg.

SR.NO.	PARAMETER	OBSERVATION	LIMITS AS PER IS 9103 : 1999 Reaffirmed 2004 Edition 2.2- (2007-08)
01	Relative Density	1.062	±0.02 of the value stated by the manufacturer
02	pH value	6.40	Min. 6.00
03	Dry Material Content (% by weight)	21.80	± 5.0% of the value stated by the manufacturer
04	Chloride content (% by weight)	NIL	Within 10% of the value or within 0.2% whichever is greater as stated by the manufacturer
05	Ash Content (% by weight)	1.90	± 5.0% of the value stated by the manufacturer

Certified that the above material Complies with the specification.

Certified By: Jatinder kumar

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# OUR PRODUCTS

## Admixtures

Chemical admixtures are used to modify and improve the properties of fresh and hardened concrete or mortar.

Product	Description	Typical Uses	Dosage/Coverage/Yield
---------	-------------	--------------	-----------------------

► Water Reducing Admixtures (Plasticisers)

<b>Uniplast P200</b> 1, 5, 20 and 200 litres	Water reducing admixtures. Conforms to IS:9103-99 & Complies with ASTM C494 as Type A.	All structural and general concrete where improved density and quality are required. Cement saving where excess cement proves necessary to obtain target strength.	0.2 to 1.0 liter / 100kg of total cementitious material
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<b>Uniplast P500</b> 1, 5, 20 and 200 litres	High performance slump retaining and water reducing admixtures. Complies with BS 5075 part 1 and ASTM C494 as Type D & IS:9103-99.	Cement saving can be made without reduction in strength and workability. Used for all structural concrete where improved density and quality are required.	0.4 to 1.0 liter / 100kg of total cementitious material
---	--	--	---

► High Range Water Reducing Admixtures (Superplasticisers) -SNF Based

<b>Uniplast SP300</b> 1,5, 20 and 200 litres Also in 250 kg	High performing water reducing superplasticisers. Conforms to IS:9103-1999 also complies with IS:2645-2003, BS5075 part 3 and ASTM C-494 Type F.	To produce plumbable concrete for low water cement ratio concrete. Easy compaction in heavily reinforced concrete bridges, foundations columns, beams and narrow formwork units.	0.5 to 1.5 liter per 100 kg of total cementitious material
---	--	--	--

<b>Uniplast SP500 PQC</b> 200kg & bulk supply.	Superplasticising admixture for PQC concrete. Uniplast SP500 PQC complies with IS:9103:1999 and BS : 5075 Part 3. Uniplast SP500 PQC conforms to ASTM-C-494 Type 'G' depending on the dosage used.	Best Suitable for PQC concrete by substantial reduction in water resulting in low permeability and high early strength.	0.5 to 1.5 liters per 100kg of total cementitious material
---	--	---	--

► Air Entraining Agents

<b>Uniplast AEA</b> 1,5,20 and 200 litres & bulk supply	Air entraining admixture. Uniplast AEA complies with BS 5075 Part 2, BS 4887 Part 1, ASTM C260.	To produce air entrained concrete for increased durability and resistance to damage by frost and deicing salts. Typical applications include concrete roads and concrete dams, airport, kerb concrete, runways and taxiways and other extensive areas of concrete exposed to potential frost damage.	0.08 liters to 0.12 litres per 100kg of total cementitious material
--	---	--	---



Product	Description	Typical Uses	Dosage/Coverage/Yield
---------	-------------	--------------	-----------------------

► High Range Water Reducing Admixtures (Hyper Plasticisers) - PCE Based

<b>Unicrete PC100 (Low PC)</b> 5,200 kg drums and bulk supply.	High performance PCE based admixture for wide range of concrete grades.	Unicrete PC100 is a high performance retarding superplasticiser intended for applications where retardation and long workability retention are required.	0.3 to 2 Percent by weight of total cementitious material
---	---	--	---

<b>Unicrete PC200 (Mid PC)</b> 5, 200, 250 kg drums and bulk supply.	Advanced low viscosity retarding superplasticiser, based on polycarboxylic technology.	Unicrete PC 200 is a high performance retarding superplasticiser intended for applications where retardation and long workability retention are required, and it has been developed for use in : Mass raft foundation, Pumped concrete, Concrete requiring long workability retention, High performance concrete.	0.3 to 2 Percent by weight of total cementitious material
---	--	---	---

<b>Unicrete PC250 (Mid PC)</b> 5, 200, 250 kg drums and bulk supply.	Advanced low viscosity retarding superplasticiser, based on polycarboxylic technology.	Unicrete PC 250 is a high performance retarding superplasticiser intended for applications where retardation and long workability retention are required, and it has been developed for use in : Mass raft foundation, Pumped concrete, Concrete requiring long workability retention, High performance concrete.	0.25 to 2 Percent by weight of total cementitious material
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<b>Unicrete PC350 (High PC)</b> 200kg, 250 kg drums and bulk supply.	Advanced low viscosity high performance superplasticiser, based on polycarboxylic technology. Unicrete PC 350 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G.	Unicrete PC 350 is a high performance superplasticisers intended for applications where high water reduction and long workability retention are required, and it has been developed for use in: Self-compacting concrete, Pumped concrete, Concrete requiring long workability retention.	0.4 to 2 Percent by weight of total cementitious material
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<b>Unicrete PC 300 PQC</b> 200kg, 250 kg drums and bulk supply.	Advanced low viscosity high performance superplasticiser, based on polycarboxylic technology. Unicrete PC 300 PQC complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G.	Unicrete PC 300 PQC is best suitable for PQC concrete by substantial reduction in water resulting in low permeability and high early strength.	0.4 to 1.5 Percent by weight of total cementitious material
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## OUR PRODUCTS

Product	Description	Typical Uses	Dosage/Coverage/Yield
<b>► Accelerators &amp; Corrosion Inhibitors</b>			
<b>Uniplast NC</b> 5, 20, 200 litres & 200 kg	Chloride free accelerating admixture, complies with IS:9103-99, BS 5075 Part 1 and ASTM C494 Type C.	To accelerate the setting and early strength gain of portland cement concrete and mortar. Typical application includes precast concrete sections, concrete placed in cold weather conditions and concrete repairs etc.	2 - 3 litres per 100 kg of total cementitious material
<b>► Shutter Release Agents</b>			
<b>Uniease SPL</b> 5, 20 and 200 litre	Chemical mould release agent.	To provide quick, clean and easy stripping of moulds and formwork and ensure high quality fair faced and stain free concrete.	Uniease SPL 20-60m <sup>2</sup> /litre depending on porosity & texture of mould surface.
<b>► Water Proofing Compounds</b>			
<b>Unibond SBR</b> 1, 5 & 20 litres	Shyrene Butadiene polymer bonding agent cum cement mortar/concrete modifier	Used to modify the concrete for repairing distressed RC members and to modify mortars as waterproofing and flooring render	6.7m <sup>2</sup> / litre
<b>Unibond SBR Latex</b> 0.5, 1, 5 & 20 litres	Mortar and Screed modifier cum bonding aid	For modifying and improving bonding of floor toppings, renderings and mortars; repair of worm, damaged and spalled concrete, repair of large cracks; polymer modified floor screeds; waterproof plasters for masonry and slurries.	4-5m <sup>2</sup> / litre depending on substrate porosity.

## Curing Compounds

Curing membranes & release agents to improve the surface finish of concrete.

Product	Description	Typical Uses	Dosage/Coverage/Yield
<b>Unicure WB</b> 5, 20 and 200 litres	Low viscosity wax emulsion, water based concrete curing compound. Complies to ASTM C309-90.	For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place.	3-5 m <sup>2</sup> / litre
<b>Unicure RB</b> 20 and 200 litres	High efficiency polymeric resin based film forming curing agent. Unicure RB gives 90% or greater curing efficiency when tested as per BS 7542-1992.	As a spray applied membrane to retain moisture in concrete for effective curing. Suitable for all general concrete application and of particular benefit for large area concrete surfaces, such as airport runways, roads and bridge works.	3-5 m <sup>2</sup> / litre

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## WHY CHOOSE US

- One of the most skilled and technically qualified management team of technocrats.
- One of the biggest construction chemical facilities ensuring timely delivery and lower inventory for contractors.
- One of the very few construction chemical companies to have their own transportation fleet ensuring flexibility and reliability in executing final orders.
- Well equipped in-house laboratory for checking and testing of all inputs and outputs to meet highest level of quality standards.
- ISO Certified 9001:2015 Company meeting all standard manufacturing and quality norms.
- Cent per cent output, competitive rates for world class products, on-time delivery.





# PRODUCTS DESCRIPTION



## UNIPLAST SP300

Super Plasticizer

### ADVANTAGES

- Imparts extreme fluidity
- Allows water reduction (20-30%)
- Higher early & ultimate strength
- Rapid placing with no vibration.
- Improved Surface Finish, cohesion.
- Reduced shrinkage & cracks.
- Chloride Free.
- Produce denser more durable concrete giving better protection to steel against corrosion.

### PRODUCT

UNIPLAST-SP-300 high range water reducing super plasticizer for concrete, mortars provide very high water reduction, complying to ASTM C-494 type-F BS 5075 part 3 IS 9103 1979.

### COMPOSITION

UNIPLAST-SP-300 is a brown liquid based on selected Synthetic sulphonated naphthalene formaldehyde condensates.

### PURPOSE

To impart very high workability without the addition of extra water or to enable large water reduction to be made for higher early & ultimate strength.



### DOSAGE

300 ml to 900ml / 50 kg Cement. Optimum dosage should be determined by site trials.

### PACKAGING

100, 250 Kg. Drums or Bulk delivery.

### DESCRIPTION

UNIPLAST-SP-300 is a powerful super plasticizer dispersing agent based on modified sulphonate naphthalene formaldehyde condensate.

### BENEFIT

1. Flowable concrete: UNIPLAST-SP-300 greatly produce flowing concrete with higher strength. In comparison of normal strength this Flowable concrete allows rapid placing of concrete with little or no vibration and makes the concrete denser for increased durability.
2. High early strength: UNIPLAST-SP-300 gives high early strength if advantage of water reduction is taken upto 25% significant increase in ultimate strength improved surface finish, Improved water tightness no adverse shrinkage effect specially suitable for congested & heavily reinforce concrete.

### WHERE TO USE

- Precast & Prestressed concrete
- Floor slabs, girders
- Foundation
- Walls, columns, beams and ceiling
- Pump concrete, mass concrete
- Congested reinforcement concrete
- Low water / cement concrete
- Ready mixed concrete

### TECHNICAL DATA

- Appearance : Liquid
- Colour : Brown
- Chloride Content : Nil
- pH Value : Min 6
- Air Entrainment : 1% additional air

### METHOD OF USE

UNIPLAST-SP-300 is added to part mixing (Gauging) water. The dosage rate is 300 ml - 900ml / 50 kgs. cement bags. Optimum dosage should be determined by site trials.

### OVERDOSING

Should be avoided since it may produce a concrete which may segregate and retard setting of concrete.

### STORAGE LIFE

UNIPLAST-SP-300 has shelf life of one year in manufacturer's unopened containers protected from frost & direct sunlight.

### HEALTH & SAFETY

UNIPLAST-SP-300 is an industrial chemical, ingestion should be avoided.

### COMPATIBILITY

- UNIPLAST-SP-300 is compatible with all types of cement e.g. OPC, PPC, PSC etc.
- UNIPLAST-SP-300 is compatible with all air entraining agent which complies with IS 9103-2003 and integral water proofing compound which complies with IS 2645 - 1978. If other admixture are to be used in concrete containing UNIPLAST-SP-300, they must be dispensed separately.





## UNICRETE PC-300 PQC

Water Reducing Plasticizers

### ADVANTAGES

UNICRETE PC-300 (PQC) produces cohesive Concrete for jobsite application especially meant for pavement quality concrete which needs initial moderate slump like 50+10mm and 30+15mm at the discharge point to feed the sleep form paver. The maximum retention period may be as long as 90 minutes commencing from the moment the water is added in the mix. Hence, retention period may vary according to the distance to be covered by the Tipper Truck. This can be simply achieved by adjusting the dosage of UNICRETE PC-300 (PQC). Even with very less cementitious and fine content, lubrication is provided by the product to ensure smooth movement of the paving machine. At the same time unwanted event of edge collapse can also be eradicated through usage of this product.

### TECHNICAL DATA

- Appearance : Light Yellow Coloured
- Specific Gravity :  $1.09 \pm 0.02$
- pH Value :  $\geq 6$
- Chloride Content : Nil, as per IS-456
- Compatibility : OPC, PPC.

### PACKAGING

- 250 Kgs Barrels & bulk in 10 Kl tanker

### DESCRIPTION

UNICRETE PC-300 (PQC) is a special water reducing plasticiser based on modified poly carboxylic and organic polymers. The use of UNICRETE PC-300 (PQC) is particularly recommended for jobsites requiring very low plasticity. Concrete with homogenous and cohesive mix without any hint of Segregation, bleeding. Also to retain that low workability for a long period.



### METHOD OF USE

Dosage : Optimum Dosage can only be established after trials, taking into account the rheological characteristics and the required mechanical performances. Rate as. addition is generally in the range of 0.4-1.5% by weight of cementitious material. For maximum disperency throughout the mix, UNICRETE PC-300 (PQC) should be added to the mixing water only. Should the product be added to the fresh concrete, into the mixing truck, it is necessary to mix at high speed, and then at low speed (with a minimum 3 minutes at each speed).

### NORMS AND REGULATIONS

UNICRETE PC-300 (PQC) Conforms to IS : 9103-2007 ASTM C - 494-1981 (Type-G).

**Shelf Life :** If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months could be expected.

### APPLICATION

- Domains of application
- Low slump concrete
- Pavement Quality Concrete

**PRECAUTION :** Not to be Stored at high temperature long periods. Should be protected from frost. It, is toxic and formulated from chemicals which present a fire or health hazards.

## UNICRETE PC-250

Super Plasticiser For Low W/C Ratio Concrete

### ADVANTAGES

- Flowable mix without bleeding and segregation.
- High water reduction-upto 30%
- High early strength
- Produces flowable concrete resulting in easy placing and eliminates honeycombing.
- Reduction in shrinkage cracks.
- Less permeable and hence more durable concrete.

### TECHNICAL DATA

- Appearance : Light Yellow Liquid
- Specific Gravity :  $1.08 \pm 0.02$  at  $25^{\circ}\text{C}$
- Chloride Content : Nil
- pH Value : Min 6

### PRODUCT

UNICRETE PC- 250 is the new generation super plasticising admixture base on modified Polycarboxylate.

It complies as per specification IS: 9103-1999 and ASTM-C-494-86, Type G, UNICRETE PC- 250 is especially designed for concrete mixer, which helps in ultra high water reduction, excellent flow characteristics, etc.

### COMPOSITION

UNICRETE PC- 250 is a light yellow liquid based on super plasticising admixture based on modified polycarboxylate.

### WHERE TO USE

- Precast concrete
- High Volume fly ash concrete
- High performance concrete
- Reinforced concrete

### COMPATIBILITY

- UNICRETE PC-250 is compatible with all types of cement e.g. OPC, PPC, PSC etc.
- UNICRETE PC-250 is compatible with all air entraining agents that comply with IS 9103-2003 and integral water proofing compounds that



comply with IS 2645-1978. If other admixture is to be used in concrete containing UNICRETE PC- 250 they must be dispensed separately.

### PACKAGING

50, 100 , 250 Kg. in plastic barrel

### DOSAGE/METHOD OF USE

- Dosage range of UNICRETE PC- 250 should be 300-900 ml to 50 kg bag of cement. Optimum dosage should be determined by doing site trail mixes. Dosage may go above maximum limited for high performance concrete and shall be determined by site trail mix.
- The correct quality of UNICRETE PC- 250 should be measured with recommended dispenser and should be added to the concrete with remaining 30% mixing water and allow to mix it for atleast 60 seconds.
- UNICRETE PC- 250 should not be added in dry mixes under any circumstance.

### STORAGE

- Keep the liquid above freezing temperature.
- If the product has frozen, thaw it at room temperature ( $25^{\circ}\text{C}$ ) and until it completely reconstitutes in the original form.
- Store under cover, protect from direct sunlight.
- Failure to comply with recommended storage condition might result in premature deterioration of the products and packaging.

### HANDLING PRECAUTION

UNICRETE PC- 250 is a non-toxic and inflammable. When in contact with the skin, it should be washed with cold water.



## UNICRETE PC 350

Advanced low viscosity high performance Superplasticiser, based on Polycarboxylic technology

### ADVANTAGES

- Increased early and ultimate compressive strengths.
- Water reduction over 35%.
- Better resistance to carbonation.
- Lower permeability.
- Better resistance to aggressive atmospheric conditions.
- Increased durability.

### TECHNICAL DATA

- Appearance : Light yellow coloured liquid
- Specific Gravity : 1.07 - 1.1 g/cc
- pH Value : Min 6
- Chloride Content : Nil to IS:456
- Volumetric Mass @ 20°C: 1.09 kg/litre
- Alkali Content : Typically less than 1.5g Na<sub>2</sub>O equivalent/litre of admixture

### PRODUCT

Unicrete PC 350 complies with IS:9103-1999 (2007). It also complies with ASMT C494 Type F and G depending on the dosage used.

### DESCRIPTION

Unicrete PC 350 is differentiated from conventional superplasticisers in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Unicrete PC 350 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

### COMPATIBILITY

Can be used with all types of Portland cements like OPC, PPC and PSC except High Alumina Cements.

### USES

Unicrete PC 350 is a high performance superplasticiser intended for applications where increased early and ultimate compressive strengths are required, and it has been developed for use in :

- Self compacting concrete.
- Pumped concrete.
- Concrete requiring long workability retention.
- High performance concrete.

### TECHNICAL SUPPORT

Unirock Chemicals Pvt. Ltd. provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

### DOSAGE

The optimum dosage of Unicrete PC 350 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.4 to 2 Percent of cementitious material.

### PACKAGING

Unicrete PC 350 is available in 200, 250 kg drums.

### STORAGE

Unicrete PC 350 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then contact local United Conchem Co. office for advice.

### PRECAUTIONS

Health and safety instructions

Unicrete PC 350 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come in contact with 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.

### FIRE

Unicrete PC 350 is water based and non- flammable.

### CLEANING AND DISPOSAL

Spillages of Unicrete PC 350 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.





## UNICURE-WB

Wax based concrete curing compound Advantages

### ADVANTAGES

- Give water repellent film.
- Allows continuous and gradual curing without constant attention.
- Reduces surface temperature and crack formation.
- Prevents early water evaporation from concrete.
- No risk of poor curing .
- Eliminates use of water curing, hessian or sand.
- Non-toxic, Non- Flammable.
- Economical and easy to use.
- Reflects more ultraviolet rays.
- Facilitates the production of uniform concrete of maximum strength and durability.

### PRODUCT

UNICURE-WB is wax based concrete curing compound for fresh concrete, screeds, floors, granolithic toppings and vertical surfaces. Complies to ASTM C-309-74.

### COMPOSITION

UNICURE-WB is a white liquid based on low viscosity wax emulsion and white pigments.

### PURPOSE

To protect concrete against excessive drying out by retaining the moisture and water in fresh concrete. To prevent permanent water loss from concrete.

### COVERAGE

UNICURE-WB has a coverage of 4 to 5m<sup>2</sup> / liter.

### PACKAGING

50,100,210 liters drums.

### DESCRIPTION

UNICURE-WB is a solution of special pigmented wax emulsion formulated for application to freshly - placed concrete. It dries to form impervious film on the surface. It ensures that the concrete keeps as moist as possible during the vital curing period.



Efficient curing is particularly important in exposed situations such as concrete roads and runways etc., where the surfaces are subject to the drying action of heat, direct sunlight or wind. Traditional curing methods using wet hessian, straw, sand or polythene sheeting are never completely efficient as it is not possible to exclude air entirely from the face of the concrete. These techniques waste time, labour and materials and in addition are difficult to apply to vertical surface.

UNICURE-WB curing compound membrane replaces these older methods, by virtue of its easy application, higher efficiency and saving in labour and material costs.

### WHERE TO USE

For efficient and positive curing of canal lining, roads, runways, external floors, bridges, column and beams, dams other types of concrete construction where water curing is difficult or unreliable.

### TECHNICAL DATA

- Appearance : White Liquid
- Specific Gravity : 0.98 .
- Dry Film : Translucent
- Application Temperature : Min 5° C.

### METHOD OF USE

UNICURE-WB should be applied at the rate of 1 litre to 5.5m<sup>2</sup> of surface area, a single spray-applied coat is sufficient. For horizontal surfaces spray on UNICURE-WB as soon as any excess water has dried off. This is usually within 30 minutes of finishing vertical surface should be wetted with water after stripping the shuttering and just prior to the application of UNICURE-WB.

### STORAGE LIFE

UNICURE-WB has a shelf life of at least 12 months in unopened drums, protect from direct sunlight.

### HANDLING PRECAUTION

UNICURE-WB is water based non-hazardous, non-toxic. Avoid contact with skin and eyes.



## UNICURE - RB

Resin Based Concrete Curing Compound

### ADVANTAGES

- Highly efficient curing.
- Reduces supervision and labour cost.
- Curing efficiently more than 90%.
- Forms an elastic impervious film to retain maximum moisture cement during curing period.
- Allows gradual and continuous curing without constant attention.
- Simple one coat spray application.
- Reduces possibility of shrinkage, hairline cracking and crazing.
- Ready mixed and economical.

### PRODUCT

UNICURE-RB is highly effective curing compound for concrete.

### COMPOSITION

UNICURE-RB is aluminised coloured solution of selected resins.

### PURPOSE

To protect concrete against excessive drying out during curing. To achieve optimum strength and durability.

### PACKAGING

20,50,100, 210 ltrs HDPE Drums .

### EFFECTIVE CURING

UNICURE-RB allows continuous and gradual curing without constant attention thus reduced supervision and labour costs over conventional methods. It also facilitates the production of uniform concrete with increased resistance to abrasion.

### DESCRIPTION

UNICURE-RB is a solution of special resin, formulated for application to freshly-placed concrete. UNICURE-RB dries to form an elastic impervious film on the surface which ensures that the concrete remains as moist as possible during the vital curing period. The film gradually disintegrates on weathering .

Traditional curing methods using wet hessian, straw sand or polythene sheeting are never completely efficient as it is impossible to exclude air entirely from the face of the

concrete. These techniques waste time, labour and materials and in addition are difficult to apply to vertical surfaces. UNICURE-RB membrane curing compound replaces these older methods by virtue of its ease of application, higher efficiency and savings in labour and material costs.

### WHERE TO USE

For Efficient and positive curing of.

- Bridges, dams, airport, runways, reservoirs.
- Roads, external floors canal linings.
- Retaining vast floorings and rendering highways .
- Roof decks and shell roofs.
- Pre stressed beams and piers.

### TECHNICAL DATA

- Appearance : Liquid
- Colour : Aluminised Silver

### METHOD OF USE

UNICURE-RB has been designed to spray application to the newly laid concrete. Once the surface water has disappeared a thin film of UNICURE-RB is then applied to the whole surface using a hand operated spray gun or brush.

### APPLICATION

Stir well before use. After application the area concerned must be protected from rain for at least 2-3 hours.

### STORAGE

UNICURE-RB has a storage life of minimum 12 months in unopened container in dry condition out of direct sunlight.

### HANDLING PRECAUTION

UNICURE-RB is inflammable and usual precautions against fire and prolonged breathing of solvent vapour should be avoided. Contact with the skin should be avoided.

### COVERAGE

UNICURE-RB has a coverage of 4 to 5m<sup>2</sup> / liter.