



# ABC Construction Chemical Company Limited

*A Total Solution of Building Construction*

✉ [corporate@abc-chemical.com](mailto:corporate@abc-chemical.com)

🌐 [www.abc-chemical.com](http://www.abc-chemical.com)

## About us

ABC Construction Chemical Company Limited started its journey as one of the pioneers in the construction chemicals industry in Bangladesh, 2002.

ABC Construction Chemical Company established its construction chemical plant at Kadamtoli, Dhaka with the state of the art modern machineries where as the finest quality raw materials are used to produce high quality raw materials imported from Germany, South Korea, South Africa, Malaysia, China, India. As a result, we have been able to draw the market attention to our ABC branded admixture within a very short period of time. Also we are actively involved in various construction projects through the country. ABC Construction Chemical Company Engineering also importing building materials to meet the desired level of quality products.

It will be an obvious to mention that, we have been able to come so far by a team of highly dedicated and very energetic young professionals. As a result, the level of our customers satisfactions are crossing its limits day by day. Thanks to all of our honourable clients for supporting and forcing our company towards a very better future.

### Vision and Strategy

Our vision is to make the entire construction customers to use high tech, concrete admixtures and we also want to aware the market to used admixtures in all the construction works.

### Our Mission

Our commitment to customer's service and technical support set the company apart from its competitors. We are not just the materials supplier, but a solution provide.

### Mutual Trust

ABC Construction Chemical Company believes in open, long term relationship delivering mutual value.

### Our Passion

We are proud of our heritage and we want to delivery future success via our customers successes.

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BSTI ISO 9001:2015 Certified Company

TESTED BY



BUET



LGED



DUET



BCSIR



CUET



বাংলাদেশ বিনিয়োগ উন্নয়ন কর্তৃপক্ষ



পরিবেশ অধিদপ্তর  
পরিবেশ ও বন মন্ত্রণালয়



RJSC  
রাষ্ট্রায়ত্ত্বাক্রম



ফায়ার সার্ভিস ও সিভিল  
ডিফেন্স অধিদপ্তর



International  
Accreditation Forum

CERTIFIED BY

# ABC Chemical Products Portfolio

Admixtures



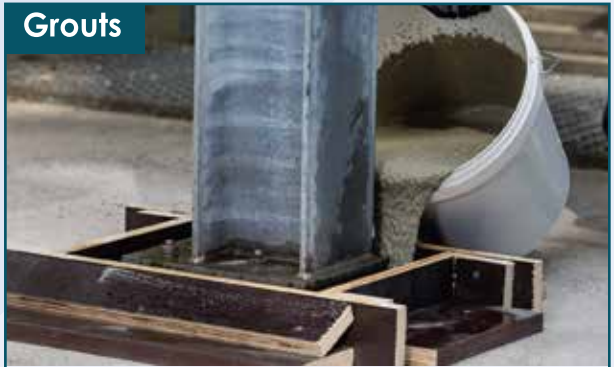
Admixtures



Water Proofing Membrane



Grouts



Anchors



Heat Proofing Coating



Floor Treatment



Water Leakage Treatment



# abcPLASTISOL™ -SP150

Water reducer & Slump retention admixture for concrete.

## Description

**abcPLASTISOL-SP150** is the main material for the concrete admixture. It shows the high water reducing effect based on Sulphonated Naphthalene Polymers.

The product has been primarily developed for applications in ready mix and site batched concrete. **abcPLASTISOL-SP150** makes possible for long time slump retention but using less water than other products.

abcPLASTISOL-SP150 has been specially formulated to give high water reductions up to 25% & slump retention without loss of workability or to produce high quality concrete of reduced permeability.

## Uses

- Good workability for long distance transportation
- Ready Mixed Concrete
- High water reduction and High ultimate strength
- Pumped concrete
- To maintain minimum water cement ratio in concrete
- Increased durability



## Advantages

- Substantial improved in Workability.
- Reduction shrinkage and surface finish
- Lower permeability
- Improved cohesion and particle dispersion minimizes segregation & bleeding and improved pump ability
- Improved density and surface finish
- Feasible to use to make good fare face concrete
- Chloride free dose not attack reinforcement and pre stressed cable.

## Technical Data

Color	Dark Brown liquid
Specific Gravity	1.22±0.02 at 25° C
Chloride Content	Nil
PH	Minimum 6.0 */ Maximum 7.8*
Viscosity	450+200 cPs
Salt Scaling Resistance	Excellent

## Standard Compliance

**abcPLASTISOL-SP150** complies with IS 9103 & EN 934-2

**abcPLASTISOL-SP150** conforms to ASTM C-494, Type "B", Type "D" and Type "G".



# abcPLASTICAST™ - 555PCE

PCE based high range reducing superplasticising admixture for concrete

## Description

**abcPLASTICAST-555PCE** is a unique combination of the latest generation superplasticisers on a modified Polycarboxylic Ether (PCE) polymer with long lateral chains. The product has been primarily developed for applications in ready mix and site batched concrete. **abcPLASTICAST-555PCE** makes possible for long time slump retention but using less water than other products.

**abcPLASTICAST-555PCE** has been specially formulated to give high water reductions up to 30% without loss of workability or to produce high quality concrete of reduced permeability.

## Uses

- Good workability for long distance transportation
- Ready Mixed Concrete
- High water reduction and High ultimate strength
- Pumped concrete
- Precast/ pre stress concrete
- To maintain minimum water cement ratio in concrete
- Increased durability



## Advantages

- Substantial improved in Workability.
- Reduction shrinkage and surface finish
- Lower permeability
- Improved cohesion and particle dispersion minimizes segregation & bleeding and improved pump ability
- Improved density and surface finish
- Feasible to use to make good fare face concrete
- Chloride free dose not attack reinforcement and pre stressed cable.

## Technical Data

Color	Yello wish viscous liquid
Specific Gravity	1.08 ±0.02 at 25° C
Chloride Content	Nill
PH	Minimum 6.0 */ Maximum 7.8*
Viscosity	450+200 cPs
Salt Scaling Resistance	Excellent

## Standard Compliance

**abcPLASTICAST-555PCE** complies with IS 9103:1999 & EN 934-2

**abcPLASTICAST-555PCE** conforms to ASTM C-494, Type "B", Type "D" and Type "G".



# abcPLASTISOL™ - P200

High range water reducing superplasticising admixture for concrete.

## Description

**abcPLASTISOL- P200** is the main material for the concrete admixture. It shows the high water reducing effect based on Sulphonated Naphthalene Polymers.

**abcPLASTISOL- P200** has been specially formulated to give high water reductions up to 25% without loss of workability or to produce high quality concrete of reduced permeability.

## Uses

- Site Mixed Concrete
- To produce concrete with extreme workability characteristics
- Pumped concrete
- Precast/ pre stress concrete
- To maintain minimum water cement ratio in concrete
- To produce high grade concrete M30 and above by high water reduction in the concrete mix design
- High performance grout and wet shot Crete mixes

## Advantages

- High early strength accelerated construction
- Controlled set times
- Lower concrete viscosity
- Improved cohesion and particle dispersion minimizes segregation & bleeding and improved pump ability
- Improved density and surface finish
- Feasible to use to make good fare face concrete
- Chloride free dose not attack reinforcement and pre stressed cable.



## Technical Data

Color	Dark Brown liquid
Specific Gravity	1.21± 0.02 at 25° C
Chloride Content	Nill
PH	Minimum 6.0 */ Maximum 7.8*
Viscosity	450+200 cPs
Salt Scaling Resistance	90%-95%

## Standard Compliance

**abcPLASTISOL- P200** complies with IS 9103:1999 & EN 934-2:T3.1/3.2.

**abcPLASTISOL- P200** conforms to ASTM C-494, Type "A", and Type "F".



# abcAQUAGUARD™ - HWP100

Integral water proofer for concrete and mortar .

## Description

**abcAQUAGUARD- HWP100** is a liquid admixture for concrete to achieve high resistance to water ingress. It is based on a blend of surface active agents and refined lignosulphonate.

**abcAQUAGUARD- HWP100** has been specially formulated to give high water reductions up to 20% without loss of workability or to produce high quality concrete of reduced permeability.

## Uses

- Site Mixed Concrete
- Can be used in all structure concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structure and pre-cast concrete in exposed superstructures.
- To reduce salt outcome in the plaster work
- Reduce porosity in the concrete
- Can be used as waterproofing cum plasticizing admixture for cement mortars and plasters.



## Advantages

- Provides resistance to water penetration either under hydrostatic pressure or capillary absorption
- Increased durability
- Reduced sulphate attack
- Reduced efflorescence
- Improved cohesion, reduce segregation
- Improved surface finish
- Reduced shrinkage crack in plasters.

## Technical Data

Color	Dark Brown liquid
Specific Gravity	1.17± 0.02 at 25° C
Chloride Content	Nil
PH	6.5 - 8
Viscosity	450+200 cPs
Salt Scaling Resistance	90% - 95%

## Standard Compliance

Surface absorption of water, BS 1881 : reduction of 60-80 %

**abcAQUAGUARD- HWP100** complies with IS 9103:1999

**abcAQUAGUARD- HWP100** conforms to ASTM C-494, Type "A", and Type "D".





# abcPLASTICAST™ - QC300

High early strength, high range water reducing/  
superplasticising admixture for precast concrete

## Description

**abcPLASTICAST- QC300** is a superplasticizer for high performance concrete, high strength concrete high volume fly ash slag concrete and grouting, self-leveling screed mortar.

## Advantages

- Provides resistance to water penetration either under hydrostatic pressure or capillary absorption
- Increased durability
- Reduced sulphate attack
- Reduced efflorescence
- Improved cohesion, reduce segregation
- Improved surface finish
- Reduced shrinkage crack in plasters.

## Technical Data

Color	Brown liquid
Specific Gravity	1.15± 0.02 at 25° C
From	Liquid
PH	6.5 - 8
Chloride Content	Nil
Salt Scaling Resistance	90% - 95%

## Standard Compliance

**abcPLASTICAST- QC300** conforms to ASTM C-494, Type "E" & Type "F"

# abcBLOCKMIX™

High strength superplasticising admixture for block

## Description

**abcBLOCKMIX** is low dosage admixture, after using it, Cement concrete set and harden firstly, Initial and final setting intervals short. This product can well suit cements. This Product ideal for Hollow Block, Cement Bricks, Block etc. It Increased Resistant during & after making hollow Block, Cement Bricks, Block etc. It also reduce the damage in transportation.

## Advantages

- **abcBLOCKMIX** provides the following benefits to fresh and hardened concrete.
- The hardening concrete has good Compactness and good permeability, it also can make up high-strength shotcrete.
- Smooth Finishing.
- Increase density.
- Concrete In cold Condition
- Improved surface finish
- Make fireproof coating of all kinds structures, as well as waterproof plugging.

## Technical Data

Color	Light Yellows
Specific Gravity	1.07± 0.02 at 25° C
From	Liquid
PH	6.5 - 8
Chloride Content	Nil
Salt Scaling Resistance	90% - 95%

## Standard Compliance

**abcBLOCKMIX** conforms to ASTM C-494, Type 'E'. It can meet requirements and indicators of JC477-2005.

## Dosage

Desired dosage of **abcBLOCKMIX** should be Determined with trial mixes. As a guide a dosage ranges of 150 ml to 250 ml per 50 kg of cement.



# abcRHEOPLAST™-SN715

Salinity control & damp proofing admixture

## Production

**abcRHEOPLAST-SN715** is an excellent salinity control and damp proofing admixture. It is chloride free salinity control and damp proofing admixture.

## Usages Area

For plaster: prepare a grouting with proportion of 1 liter **abcRHEOPLAST-SN715**, 10-12 liter water and 12.5 kg cement. Cleaning the surface properly and apply grouting with just brush and broom over the exposed concrete or brick surface (before plaster). After the prepare sand cement mortar for plastering work using admixture a **abcRHEOPLAST-SN715**, 250ml with 50 kg cement

## Technical Data

Color	Dark Brown
Specific Gravity	1.15
From	Semi Paste Liquid
PH	6.5 - 8
Chloride Content	Nil
Freezing Point	12

## Advantages

Improves surface finisher, Corrosion free Plaster Prescribed Quantity: 200ml- 300ml/ bag of cement Reduces drying shrinkage cracks, bleeding and segregation Shelf life: At least 1 year if unopened and stored properly. Anti-fungal & anti-microbial etc.

# abcQUICKGUARD™

Stopper of direct water leakage in concrete

## Production

**abcQUICKGUARD** is effective to stop direct water from leakages, cracks, honey-combs etc. **abcQUICKGUARD** is an extra fast setting plugging compound. It is a grey colored cementations dust.

## Instruction For Usages

Cut the opening of leaking hole to form v shape. place the gelled **abcQUICKGUARD** mass into the leakage. Hold and keep pressure on for 1 to 2 minutes.

## Usages Area

Spot leakages, basement, reservoir, retaining wall, tunnels, roof etc.



## Advantages

- Excellent quality plugging compound consistent performance.
- High early strength plugging is completed within 1 minute
- Simple application, Stop running water instantly



## abcELASTEMATE™ - 1200

1.5mm self adhesive Bituminous Membrane

### Production

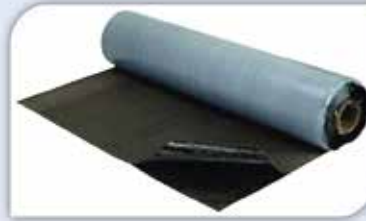
Waterproofing self-adhesive membrane, producer with polymer modified bituminous adhesive, reinforced with composite base felt in the middle and the adhesive layer protected by Silicon Release sheet, It's really a kind suitable waterproof membrane for after-pouring concrete or cement mortar mixture adhesion.

### Type

Single- side self- adhesive bitumen waterproof membrane, Double-side self adhesive bitumen waterproof membrane

### Specification

Width: 1.0m, Thickness: 1.5mm-2.0mm, Length :20mm



### Application

Industrial and civil engineering, underground engineering, such as subway basements tunnel, water conservancy, water pools, shelter, grain depot and garbage treatment. 1.5inch to 2inch concrete casting required on the top of the applied membrane.

## abcELASTEMATE™ - 2800

3mm Torch Applied Bituminous Membrane

### Description

**abcELASTEMATE-2800** Torch Applied Membrane is a line of polymer- modified bitumen waterproofing membrane of the highest quality. **abcELASTEMATE-2800** Troch Applied Membrane is reinforced with 250 gm/m<sup>2</sup> spunbond non-woven polyester (P) which provides high mechanical properties.

### Application

Industrial and civil engineering, underground engineering such as subway, basements, tunnel, water conservancy, water pools, shelter, grain depot and garbage treatment. 1.5 inch to 2inch concrete casting required on the top of the applied membrane.

### Type

Single-side self adhesive bitumen waterproof membrane, Double- side self- adhesive bitumen waterproof membrane.



### Specification

Thickness: 2mm/3mm/4mm, Length : 10m



## abcCECOAT™ - MC

High strength micro concrete

### Description

Shrinkage Compensated, free flow structural grade micro concrete for concrete repairs and strengthening (M 50 grade).

### Specification

13 Litres/25 kg @ W/p 0.16

### Application

For repair to damaged reinforced concrete elements particularly where access is restricted and where vibration of the placed material is difficult or impossible. Suitable for various structural strengthening measures such as encasements build-ups, etc.



## abcFLOWFILL™ - M88

High precision cementitious non-shink grout

### Description

Plastic shrinkage compensated high flow, high strength cementitious grout. Complies to ASTM C 1107 Type A.

### Specification

13.3 Lts/25 kg bag @ Flowable Consistency

### Application

Machine foundation grout with both static & dynamic loads, bridge bearings, precast construction etc.



## Heat Proofing Treatments

### » 5G Ultra Classic Coating



### » Heat Reflecting Coating



### » ABC COOLROOF





## Water Leakage Treatment

### » Pressure Grout Treatment



### » Epoxy Inject Treatment



### » Water Proofing Coating Treatment



## BUET TESTED

**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
 Concrete Laboratory

**BRTC**  
 Testing & Consultancy

BRTC No.: 1182-84725-01-23/CE, Dt: 21/02/22  
 Sent by: Sr. Executive, Origin or Properties Limited  
 Shaheedullah Road, Sigatara, Bani Chandra, Sigatara, Pabna, Bangladesh  
 Ref. No.: Letter, Dt: 21/02/22  
 Project: Origin Tower  
 Sample: Concrete Cylinder (No. specimens: 03), Aggregate Type: Stone (chip)  
 Location: Column (Dimensions Added (as per letter):  $\phi$  450mm x 1000mm)  
 Test: Compressive Strength Test of Concrete Cylinder (ASTM C39)  
 Date of Test: 23/02/22

Sl. No.	Date of Casting as per the letter	Specimen Designation/Flag Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	20/02/22	skPLAST100L-F300	12.42	62,877	5,946	5878 psi	Compressed*
2	20 days test	skPLAST100L-F300	12.19	66,881	5,737	(66.3 MPa)	Compressed*
3		skPLAST100L-F300	12.19	61,104	5,917	(571 kg/cm <sup>2</sup> )	Compressed*

Note: Samples were not properly sealed. \* Compressed - Mortar and Aggregate Failure.

Countersigned by:   
 Dr. A. B. M. Badruzzaman  
 Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

Test Performed by:   
 Md. Masud Hossain  
 Assistant Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

BUETCE 0224548

**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
 Concrete Laboratory

**BRTC**  
 Testing & Consultancy

BRTC No.: 1182-15059-01-21/CE, Dt: 31/03/22  
 Sent by: Engr. Md. Masud Hossain, Senior Engineer, Detail Design and Consultant  
 Ref. No.: Letter, Dt: 31/03/22  
 Project: BK Tower, Milford Road, Chak Bazar, Dhaka  
 Sample: Cylinder (No. specimens: 03), Aggregate Type: Stone (chip)  
 Location: Slab casting  
 Test: Compressive Strength (ASTM C39)  
 Date of Test: 18/02/22

Sl. No.	Date of Casting as per the letter	Specimen Designation/Flag Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	18/02/22	skPLAST100L-F300	12.19	34,401	2,807	2808 psi	Compressed*
2	20 days test	skPLAST100L-F300	12.42	79,018	6,362	(66.5 MPa)	Compressed*
3		skPLAST100L-F300	12.07	68,278	5,668	(575 kg/cm <sup>2</sup> )	Compressed*

Note: Samples were received in sealed condition. \* Compressed - Mortar and Aggregate Failure.

Countersigned by:   
 Dr. Md. Masud Hossain  
 Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

Test Performed by:   
 Rowshan Hossain  
 5/3/20  
 Dr. Rowshan Hossain  
 Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

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**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
 Concrete Laboratory

**BRTC**  
 Testing & Consultancy

BRTC No.: 1182-29130-01-21/CE, Dt: 18/02/21  
 Sent by: The Engineers & Architects Limited  
 10, Tejgaon Circular Road, Mirpur 10, Dhaka-1000  
 Ref. No.: Letter, Dt: 18/02/21  
 Project: Mirpur 10 A&B Colony  
 Sample: Concrete Cylinder (No. specimens: 03), Aggregate Type: Stone (chip)  
 Location: Column (Dimensions Added (as per letter): Not mentioned)  
 Test: Compressive Strength Test of Concrete Cylinder (ASTM C39)  
 Date of Test: 11/02/21

Sl. No.	Date of Casting as per the letter	Specimen Designation/Flag Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	12/02/21	skPLAST100L-F300	12.19	62,182	4,284		Compressed*
2	7 days test	skPLAST100L-F300	12.19	62,402	4,302		Compressed*
3		skPLAST100L-F300	12.02	43,381	3,598		Compressed*

Note: Samples were received in unsealed condition. \* Compressed - Mortar and Aggregate Failure.

Countersigned by:   
 Dr. A. B. M. Badruzzaman  
 Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

Test Performed by:   
 Masud Hossain  
 Assistant Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

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**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
 Concrete Laboratory

**BRTC**  
 Testing & Consultancy

BRTC No.: 1182-81855-01-23/CE, Dt: 18/02/22  
 Sent by: Engr. Md. Jamun, Sr. Executive Electric Circle Ltd.  
 373 Jinnah Tower, Box 60, Road, Paltan, Dhaka  
 Ref. No.: Letter, Dt: 18/02/22  
 Project: Tigran Adarsha School & College  
 Sample: Concrete Cylinder (Aggregate Type: Stone (chip))  
 Location: Column Casting (Dimensions Added (as per letter): Not mentioned)  
 Test: Compressive Strength Test of Concrete Cylinder (ASTM C39)  
 Date of Test: 11/02/22

Sl. No.	Date of Casting as per the letter	Specimen Designation/Flag Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	14/02/22	skPLAST100L-F300	12.07	91,890	7,249		Compressed*
2	27 days test	skPLAST100L-F300	11.70	68,504	5,850		Compressed*
3		skPLAST100L-F300	12.07	85,588	7,071		Compressed*

Note: Samples were received in sealed condition. \* Compressed - Mortar and Aggregate Failure.

Countersigned by:   
 Dr. A. B. M. Badruzzaman  
 Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

Test Performed by:   
 Dr. Pravat Kumar Saha  
 16.5.22  
 Assistant Professor  
 Department of Civil Engineering  
 BUET, Dhaka-1000, Bangladesh

BUETCE 0230860





## LGED | CUET | DUET TESTED

Government of The Peoples Republic of Bangladesh  
Local Government Engineering Department  
Laboratory At: Laxmipur

### COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client: Manager(R&D) Memo No: Prayer of dt. 31/12/2016  
ABC Construction Chemical Company Ltd  
Project: Dhaka  
Location: Compressive strength Test of Cylinder of ABC Construction Chemical Company Ltd.

Quantity Represented: Not Informed  
Sampled By & Date: Engr Md. Anowar Hossain  
Brand of Cement: Not Informed Type of Aggregate: Stone Chips  
F.M. of Fine Aggregate: Average Slump: Not information  
Mix. Proportion: 1:1.5:3 Min. Cement Content:

Type of Specimen: Cylinder Laboratory Register No. ৬৫৯  
Name of Cont.

Specimen ID	Structural Location	Date of Casting	Date of Testing	Days	Area cm <sup>2</sup>	Max. Load Kg	Comp. Strength N/mm <sup>2</sup>	Average Compressive Strength, N/mm <sup>2</sup>
1	2	3	4	5	6	7	8	9
1	Column	18/12/2017	21/12/2018	15	78.5	10000	12.55	
2		18/12/2017	21/12/2018	15	78.5	10000	12.55	
3		18/12/2017	21/12/2018	15	78.5	11000	13.80	13.0

Comments of the Laboratory In-Charge:

Lab Technician  
LGED Laxmipur

Asstt. Engineer  
LGED Laxmipur

Government of The Peoples Republic of Bangladesh  
Local Government Engineering Department  
Laboratory At: Laxmipur

### COMPRESSIVE STRENGTH OF CONCRETE CYLINDER

Client: Manager(R&D) Memo No: Prayer of dt. 31/12/2016  
ABC Construction Chemical Company Ltd  
Project: Dhaka  
Location: Compressive strength Test of Cylinder of ABC Construction Chemical Company Ltd.

Quantity Represented: Not Informed  
Sampled By & Date: Engr Md. Anowar Hossain  
Brand of Cement: Not Informed Type of Aggregate: Stone Chips  
F.M. of Fine Aggregate: Average Slump: Not information  
Mix. Proportion: 1:1.5:3 Min. Cement Content  
Any Special Note: Admixture: ABC AQUAGUARD 250ml/bag of Cement

Type of Specimen: Cylinder Laboratory Register No. ৬৫৯  
Name of Cont.

Specimen ID	Structural Location	Date of Casting	Date of Testing	Days	Area cm <sup>2</sup>	Max. Load Kg	Comp. Strength N/mm <sup>2</sup>	Average Compressive Strength, N/mm <sup>2</sup>
1	2	3	4	5	6	7	8	9
1	Column	18/12/2017	21/12/2018	15	78.5	13000	16.31	
2		18/12/2017	21/12/2018	15	78.5	16000	20.08	
3		18/12/2017	21/12/2018	15	78.5	16000	20.08	18.8

Comments of the Laboratory In-Charge:

Lab Technician  
LGED Laxmipur

Asstt. Engineer  
LGED Laxmipur



Bureau of Research, Testing and Consultation (BRTC)  
Department of Civil Engineering  
Chittagong University of Engineering and Technology (CUET)  
Chattogram-4340, Bangladesh

### TEST REPORT OF CONCRETE CYLINDER

Memo No: BRTC/TEST/CE/2028-421 Date: 04/02/2020  
Supplier: Manager (Business Development), abc Construction Chemical Co. Ltd.  
Reference No.: CCL/EMC/Tan/76/20 Date: 04/02/2020  
Name of the Test: Compressive Strength (Ref. Standard: ASTM C39-1E)  
Target Strength: 3000 PSI Rate: Not Available  
Date of Casting: 06/01/2020 Sample: Sealed  
Date of Crushing: 04/02/2020 Age of Specimen: 28 days  
Location: Trial Mix Cylinders  
Special Note: abc/Paricon-N600, 0.8% Uad.

Sample No.	Average Diameter, mm	Cross-sectional Area, mm <sup>2</sup>	Minimum Load, kN	Compressive Strength, MPa (psi)	Avg. Compressive Strength, MPa (psi)	Failure Mode
1	100.0	7854	142	42.3 (6114)	43.6(6300)	Mode 3
2	100.3	7901	129	41.6 (6038)		Mode 3
3	100.8	7980	163	45.3 (6576)		Mode 3

\*Mode 1: Mortar failure, Mode 2: Aggregate failure, Mode 3: Combined failure

Consigning by  
Head  
Department of Civil Engineering, CUET

Test Conducted by  
Dr. ME. Alfaruk Robitani  
Associate Professor



Dhaka University of Engineering & Technology, Gazipur  
Department of Civil Engineering  
Consultancy Research and Testing Services (CRTS)

Memo No: CRTS/CE/7645 (1) Date: 20 November 2017  
Ref. No.: Letter Date: 20 November 2017  
Sent by: Engr. M. M. Rahman, Manager, hyc, 617, Great Wall City, Gazipur  
Name of Client: Banga Fashion Ltd.  
Name of Project: 8 Storey Industrial Building at Godda Road, Gachha, Gazipur Sadar, Gazipur  
Type of Specimen: Concrete Cylinder (12" x 48") made with Brick Chips (3/4" down), with Admixture (abc Aqua guard)  
Sample Location: 1<sup>st</sup> Floor Site  
Admixture Type: abc Aqua Guard (as mentioned)  
Date of Casting: 19 October 2017 (as mentioned)  
Date of Testing: 21 November 2017  
Mix Ratio: 1 : 1.5 : 3 (as mentioned)  
Test Standard: Compressive Strength (ASTM C39)  
Samples Received: On 20 November 2017 (Normal condition)

### Report on Compressive Strength Test of Concrete Cylinder

Sample Identification Mark	Age of Specimen Days	Area of Specimen mm <sup>2</sup>	Crushing Load kN	Crushing Strength		Average Compressive Strength		Mode of Failure
				MPa	psi	MPa	psi	
1	33	7860.5	336.48	45.06	6245	44.41	6440	Combined
2		7559.7	344.36	45.33	6667			Combined
3		7818.6	348.73	44.00	6340			Combined

Consigning By:

Chairman  
CRTS, Department of Civil Engineering  
DUET, Gazipur.

Test Performed By:

(Shahab Uddin)  
Lecturer  
Department of Civil Engineering  
DUET, Gazipur.

Note: 1 MPa = 143.033 psi

# BUSINESS CERTIFICATE



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