

ATOM
BUSINESS
PROFILE

ATOM **ENGINEERING**
Innovative solutions

Eco Build 4605NS

Retarding Superplasticising admixture for concrete

Description

Eco Build 4605NS is based on SulphonatedNaphthalene Polymers and supplied as a Dark brown liquid.

Eco Build 4605NS has been specially formulated to give high water reductions upto 25% without loss of workability or to produce high quality concrete of reduced permeability.

Uses

- To produce Concrete with extreme workability characteristics
- Ready Mix concrete
- Pumped concrete
- To maintain minimum Water Cement ratio (WCR) in Concrete
- To produce High Grade Concrete M30 and above by high water reduction in the Concrete Mix design

Advantages

- Improved Cohesion and particle dispersion minimizes segregation & bleeding and improved pumpability.
- Substantial improved in Workability.
- Improved density and surface finish.
- Chloride free dose not attack reinforcement and pre stressed cable.
- Reduce porosity of the Concrete and increased durability.

Technical Data

Color : Dark Brown

Form : Liquid

Specific Gravity : 1.22±0.02 at 25° C

Salt ScalingResistance : Excellent

Chloride Content : 0.0%

Standard Compliance

Eco Build 4605NS complies with IS 9103 & EN 934-2. **Eco Build 4605NS** conforms to ASTM C-494 Type 'B', Type 'D' and Type 'G'.

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with **Eco Build 4605NS** should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 400 ml to 1200 ml per 100kg Cement. In high performance concrete a dosage upto 1800ml per 100kg of cementitious material can be added subject to prior site trials. For good quality workable concrete the ideal dose of **Eco Build 4605NS** lays from 0.7% to 1.2% by weight of cement used in the mix design.

Eco Build 4605NS

Over Dosing

An over dose of double the recommended amount of **Eco Build 4605NS** will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired. Delay setting of Concrete may occur due to over dosing.

Compatibility

Eco Build 4605NS is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers and all types of Water Integral admixtures.

Eco Build 4605NS is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Packaging

Eco Build 4605NS is supplied in 250kg drums.

Shelf Life & Storage Eco Build 4605NS has a minimum shelf life of 12 months from the date of manufacture when stored under

normal temperature. **Eco Build 4605NS** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Application

Eco Build 4605NS is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **ATOM 247** to dry aggregate or cement is not recommended.

Precautions

Eco Build 4605NS is Non Toxic & Non Flammable. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

Disclaimer: All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. **ATOM Chem Industry warrants** its products to be free of manufacturing defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within ATOM directions and tested in ATOM standards. As ATOM has no control over the use to which others may put its products. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

Eco Build 4627P9

PCE based Retarding Superplasticising admixture for concrete

Description

Eco Build 4627P9 is a unique combination of the latest generation superplasticisers based 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. **Eco Build 4627P9** combines the properties of water reduction and workability retention and also allows to produce high performance concrete.

Uses

- To produce Concrete with extreme workability characteristics.
- Ready Mix & Site mixed concrete.
- Pumped concrete.
- More than 20% water reduction in the concrete mixes.

Advantages

- Substantial improved in Workability.
- High water reduction and High Ultimate strengths.
- Reduction of segregation and bleeding in the mix at high workability.
- Better resistance to carbonation.
- Lower permeability.
- Reduced shrinkage and creep.
- Increased durability.
- Improve density and surface finish.

Technical Data

Color : Light Brown

Form : Liquid

Specific Gravity : 1.08±0.02 at 25° C

Salt Scaling Resistance : Excellent

Chloride Content : 0.0%

Standard Compliance

Eco Build 4627P9 complies with IS 9103 & EN 934-2. **Eco Build 4627P9** conforms to ASTM C-494 Type 'B', Type 'D' and Type 'G'.

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with **Eco Build 4627P9** should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 400 ml to 1200 ml per 100kg Cement. In high performance concrete a dosage upto 1800ml per 100kg of cementitious material can be added subject to prior site trials. For good quality workable concrete the ideal dose of **Eco Build 4627P9** lays from 0.7% to 1.2% by weight of cement used in the mix design.

Eco Build 4627P9

Over Dosing

An over dose of double the recommended amount of **Eco Build 4627P9** will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired. Delay setting of Concrete may occur due to over dosing.

Compatibility

Eco Build 4627P9 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers and all types of Water Integral admixtures. **Eco Build 4627P9** is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Packaging

Eco Build 4627P9 is supplied in 250kg drums.

Shelf Life & Storage

Eco Build 4627P9 has a minimum shelf life of 12 months from the date of manufacture when stored under

normal temperature. **Eco Build 4627P9** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Application

Eco Build 4627P9 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **Eco Build 4627P9** to dry aggregate or cement is not recommended.

Precautions

Eco Build 4627P9 is Non Toxic & Non Flammable. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

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Hydro Build

Low dosage, liquid, integral water proofer for concrete and mortar

Description

Hydro Build 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.

Uses

- Can be used in all structural concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural 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.
- Pumpability of concrete is greatly improved.
- Improved surface finish.
- Reduced shrinkage cracks in plasters

- Does not reduce compressive strengths
- Liquid – easy to use.
- Low dosage – Economical.

Technical Data

Color : Dark Brown

Form : Liquid

Specific Gravity : 1.17±0.02 at 25° C

Salt Scaling Resistance : Excellent

Chloride Content : 0.0%

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

Standard Compliance

Hydro Build complies with IS 9103-1999. **Hydro Build** conforms to ASTM C-494 Type 'A' and Type 'D'.

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with **Hydro Build** should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 200 ml to 400 ml per 100kg Cement.

Hydro Build

Over Dosing

An over dose of double the recommended amount of **Hydro Build** will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired. Delay setting of Concrete may occur due to over dosing.

Compatibility

Hydro Build is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers and all types of Water Integral admixtures.

Hydro Build is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Packaging

Hydro Build is supplied in 250kg drums.

Shelf Life & Storage

Hydro Build has a minimum shelf life of 12 months from the date of manufacture when stored under

normal temperature. **Hydro Build** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Application

Hydro Build is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **Hydro Build** to dry aggregate or cement is not recommended.

Precautions

Hydro Build is Non Toxic & Non Flammable. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item

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Eco Build

High range water reducing superplasticising admixture for Rheoplastic concrete

Description

Eco Build is based on SulphonatedNaphthalene Polymers and supplied as a Dark brown liquid.

Eco Build has been specially formulated to give high water reductions upto 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 (WCR) in Concrete
- To produce High Grade Concrete M30 and above by high water reduction in the Concrete Mix design
- High performance grout and wet shotcrete mixes

Advantages

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

- Reduce porosity of the Concrete and increased durability.

Technical Data

Color : Dark Brown

Form : Liquid

Specific Gravity : 1.21±0.02 at 25° C

Salt Scaling Resistance : Excellent

Chloride Content : 0.0%

Standard Compliance

Eco Build complies with IS 9103:1999& EN 934-2: T3.1/3.2. **Eco Build** conforms to ASTM C-494 Type 'A', and Type 'F'.

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with **Eco Build** should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 400 ml to 1200 ml per 100kg Cement. In high performance concrete a dosage upto 1800ml per 100kg of cementitious material can be added subject to prior site trials. For good quality workable concrete the ideal dose of **Eco Build** lays from 0.7% to 1.2% by weight of cement used in the mix design.

Eco Build

Over Dosing

An over dose of double the recommended amount of **Eco Build** will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired. Delay setting of Concrete and bleeding during concreting may occur due to over dosing.

Compatibility

Eco Build is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers and all types of Water Integral admixtures.

Eco Build is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Packaging

Eco Build is supplied in 250kg drums.

Shelf Life & Storage

Eco Build has a minimum shelf life of 12 months from the date of manufacture when stored under normal temperature. **Eco Build** must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical

agitation. Do not use pressurized air for agitation. Store under Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Application

Eco Build is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **Eco Build** to dry aggregate or cement is not recommended.

When using **Eco Build** to produce flowing concrete at site using ready mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 5 minutes at 10 rpm to produce a fully homogenous mix.

Precautions

Eco Build is Non Toxic & Non Flammable. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

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ATOM BITUFLEX ULTRA

ATOM BITUFLEX ULTRA is compressed Polyurethane based bituminous modified waterproofing membrane

Composed of a self-adhesive Polyurethane based bitumin modified with an upper surface finish of a cross laminated polyethylene film (HDPE) used as reinforcement and a lower surface finish of releasable polyethylene film.

It is used for the waterproofing of underground walls, roof, basement area. ATOM BITUFLEX ULTRA provides Crack Bridging properties for covering concrete cracks resulting from ground movements and lateral precisions.

TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Reaction to fire	F	-	UNE-EN 11925-2; UNE-EN 13501-1
Water tightness (>60 KPa)	Pass	-	UNE-EN 1928
Tensile strength (Film Only)	3.75	MPA	ASTM D882
Transversal tensile strength (Composite)	2.55	MPA	ASTM D882
Longitudinal elongation at break	350	%	ASTM D882
Transversal elongation at break	322	%	ASTM D882
Resistance to Hydrostatic loading	60	M	ASTM D5385
Resistance to impact (flexible: EPS)	900	mm	UNE-EN 12691
Longitudinal resistance to tearing (nail shank)	150 ± 50	N	UNE-EN 12310-1
Transversal resistance to tearing (nail shank)	150 ± 50	N	UNE-EN 12310-1
Tear resistance	5.50	N/mm	ASTM D 1000
Puncture resistance	255 ± 5	N	ASTM E154-88
Resistance to hydrostatic head	60	m of water	ASTM D5385
Flexibility at low temperature	< 20	°C	ASTM D146
Water vapor Transmission (less then)	0.11	g/m ² /hour	ASTM E 96
Water Absorption (24 hours) (less then	0.31	%	ASTMD 570
Bond strength (To primed Concrete)	4.00	N/M	ASTM D 1000
Crack bridging ability (5 mm)	-5.00	°C	UNE-EN 14224
Microbiological resistance (30 weeks)	Pass	-	UNE-EN 12225
Resistance to oxidation 85 °C 90 days	Pass	-	UNE-EN 14575

Pass = Positive or correct

ADDITIONAL TECHNICAL DATA

ADDITIONAL DATA	VALUE	UNIT	STANDARD
Nominal thickness	1.5 (± .10)	mm	-
Softening Point at elevated temperature	>99	°C	UN-EN 1110
Dimensional stability at elevated temperature (longitudinal)	< 0.5	%	UNE-EN 1107-1
Dimensional stability at elevated temperature (transversal)	< 0.5	%	UNE-EN 1107-1

Membranes thickness tolerance: = -0,1 mm.

STANDARDS AND CERTIFICATION

Meets the requirements of the UNE EN 13970 norm.

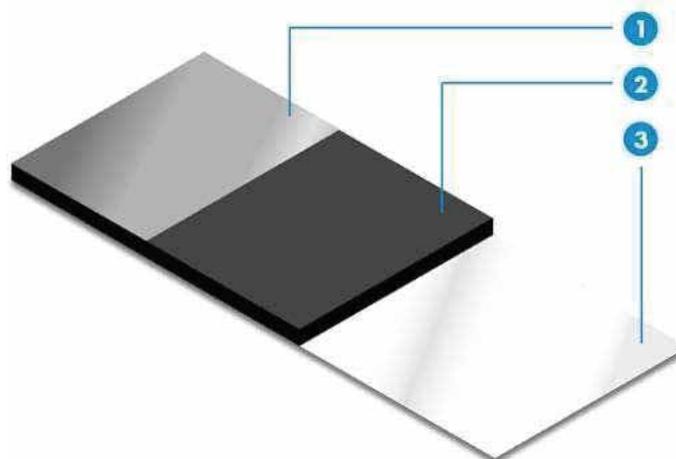
Meets the requirements of the ASTM norm

SCOPE

Product used for the waterproofing of underground walls , basement , roof . ATOM BITUFLEX ULTRA provides Crack Bridging properties for covering concrete cracks due to structural movements of the building.

PRESENTATION

PRESENTATION	VALUE	UNIT
Length	20	m
Width	1	m
Roll surface	20	m ²
Rolls per pallet	25	rolls
Product Code	192235	-



- 1 cross laminated polyethylene film (HDPE)
- 2 self-adhesive SBS modified bitumen
- 3 releasable polyethylene film

INSTRUCTION FOR USE

Surface preparation

- Concrete must be dry, clean and free from sharp projections such as nail heads and concrete nibs.
- Remove all surface imperfections, protrusions, cavities, structurally unsound and friable concrete and repair with a suitable repair mortar.
- Remove contaminants such as grease, oil, dust, dirt, loose stones, debris and wax from exposed concrete.
- Concrete must be properly dried (minimum 7 days for normal structural concrete and 14 days for lightweight structural concrete)
- Substrate should be prepared using a bituminous primer prior to installation of ATOM BITUFLEX ULTRA
- Primer should be dry before the application of the membrane. Drying time depends of the temperature and humidity.

Alignment

- Start the installation of all membrane plies from the low point or drains, so the flow of water is over or parallel to the plies, but never against the laps. All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps.
- Begin membrane application by unrolling the roll of ATOM BITUFLEX ULTRA membrane and aligning the side laps. Re-roll the roll halfway and hold on the unrolled portion to prevent shifting.

Membrane installation

- Unroll only the required length of ATOM BITUFLEX ULTRA and cut the piece to the desired shape and size.
- Place the pieces of ATOM BITUFLEX ULTRA on the area to be covered, and check whether they match with the profile of the marked substrate.
- Peel off the release film from the self-adhesive side and place the membrane so as to ensure a minimum overlap of 80 mm.
- Start unrolling the membrane and press it firmly against the surface, from the middle to the edges in order to drive out entrapped air with a wooden press.
- The surface to be overlapped should be dust free and the membrane must be firmly pressed down to ensure a watertight bond.

Protection system

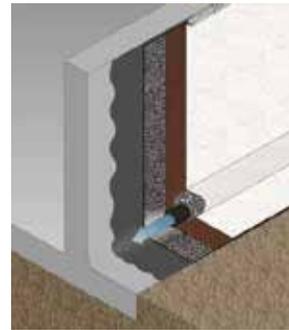
- In order to prevent damages, ATOM BITUFLEX ULTRA must be protected by a protection layer as soon as possible.



Priming



Waterproofing



Protection

ADVANTAGES AND BENEFITS

ADVANTAGES

- Controlled thickness in factory ensuring constant non-variable site application
- Certified Waterproof to water and vapor barrier system
- Easy and Fast Application
- Application at room temperature
- Prestige product from European Manufacturer following European and American Certifications

BENEFITS

- Preserve its properties in long term due to SBS mass
- Crack Bridging properties due to >300% compound elongation performance
- Total flexibility of the material, and perfect accommodation to the support
- Perfect adherence to the support
- Excellent mechanical properties in both directions due to cross laminated polyethylene film (HDPE) finishing

INDICATIONS AND IMPORTANT RECOMMENDATIONS

ATOM BITUFLEX ULTRA should not be applied when temperature is below -10°.

- Must be stored in a dry place protected from rain, sun, heat and cold temperatures.
- Sun exposure of the product may difficult the removal of the polyethylene non-stick film. In service maximum temperature should be below 50°C.
- ATOM BITUFLEX ULTRA should be kept exposed to the sun for the minimum possible time in order to prevent from U.V. rays damage. It is recommended to cover ATOM BITUFLEX ULTRA within few hours after application.

MAINTENANCE RECOMMENDATIONS

Maintenance requirement for Hoylake roofing products. The following maintenance checks must be adhered to:

- A general examination on the condition of the waterproofing and surrounding roof components.
- An inspection of all functional roofing elements including skylights, outlets, up stands, penetrations and any other visible roofing components.
- Clean outlets, drains, gutters and remove any debris from the roof.
- Periodic removal of mildew, moss, herbs or any other kind of vegetation that has been accumulation on the waterproofing.
- Periodic removal of possible sediments accumulated on the deck (silt, sledges, slate granules, etc) by occasional water accumulation.
- Periodic removal of debris and small objects that may have accumulated on the roof.
- Ensure surrounding structural elements are sound such as eaves, flashings, slate tiles and brickwork.
- Ensure that the waterproofing is in good condition and there are no blisters, damage or separation.
- Review the condition of the waterproofing (adherence to up stands, condition of overlaps, visual appearance, etc) and repair the defects observed.

These operations must be carried out twice a year, preferably at the beginning of spring or autumn and must be increased in case of decks or valleys with zero falls. It is also necessary to perform additional maintenance depending on the type of roof, location and proximity of roofs to areas with trees or in areas with high levels of pollution.

HANDLING, STORAGE AND CONSERVATION

- This product is not toxic or flammable.
- It must be stored in a dry place and protected from rain, sun, heat and low temperatures (below 40°C).
- It must be stored upright.
- Don't store two pallets high.
- You must use the oldest batch of products first.
- No waterproofing works should be performed when weather conditions are unsuitable. These include snow or ice on the roof, heavy rain, moisture, strong winds.
- In all cases, the rules of health and safety at work and the rules of good construction practice should be considered.
- To store in racking at height the shelves must have three stringers or beams under the wooden pallet.
- Before handling the pallet you must check the status of the pallet and reinforce if necessary.
- If you are using a crane for handling purposes, you must ensure protection for others as stated on our packaging instructions.

WARNING

The information that appears in the following document makes reference to the uses and utilities of Technicol products and systems, and it is based on the knowledge that have been learnt until present, by Technicol. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Technicol is not responsible for unsuitable uses of the products neither any other fact, such as meteorological facts. So Technicol is just responsible for the quality related to the provided products. Technicol reserves the right to carry out modifications without previous notice.

TECHNICOL ITALIA s.r.l. Via Galoppat, 134 – 33087, Pasiano di Pordenone (PN), Italia PN - 101202
TECHNICOL CONSTRUCTION SYSTEMS LLC, Gilyarovskogo St. 47/5, Moskow, 129 110, Russia



Your Dream
Our Solution

ATOM ENGINEERING
Inovative solutions

Chattagram Office:
Room 5, 6. 3rd floor, Sekandar Center, Baizidbostami
Chattagram-4210. ☎ 01764 293 178

Tangail Office:
Akurtakurpara Battola, Tangail. ☎ 01671 368 666

Uttara Office:
Sector # 12, Uttara, Dhaka. ☎ 01673 031 300

Corporate Office:

ATOM ENGINEERING

8/1-B, Ground Floor, Bakshibazar Lane
Chawkbazar, Dhaka-1211

☎ 025 7300730 ☎ 01928 024 067
✉ atomengineersbd@gmail.com