

www.mehschem.com.bd

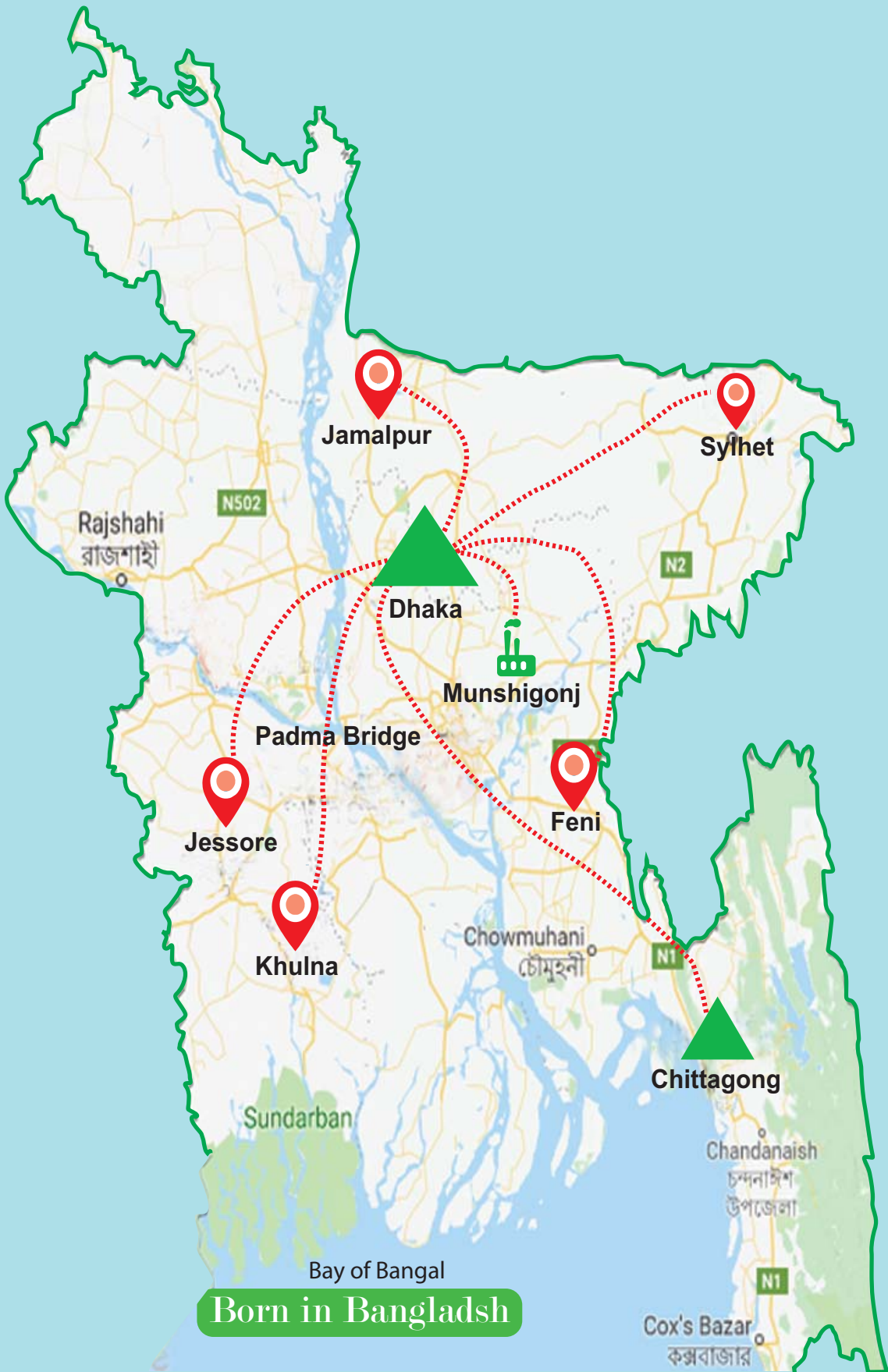


MEHS

Product Brochure



MEHS Chem Industry Ltd.
Constructing better tomorrow



Corporate Office:
MEHS Chem Industry Ltd.
House No-134 (4th floor) Eastern Road
Lane-5, Mohakhali DOHS, Dhaka-1206

MEHS Factory
Muktarpur, Munshigonj Sadar
Munshigonj

MEHS Zonal Office
Chittagong
+88 01909100505

MEHS Distributors
Jamalpur, Jessore, Sylhet,
Munshigonj, Chittagong,
Khulna, Feni



Welcome Speech

Managing Director
MEHS

On behalf of MEHS family, I welcome you all in our Products portfolio brochure. Each & every individuals of MEHS is very Responsive, Proactive and dedicated to add more value for our services and products.

We are pioneer in Construction chemicals company in Bangladesh. Our products start from High Range Concrete Admixtures to Water Proofing Admixtures, Water proofing Membranes, Pre Fabricated vertical Drain, Structural Microfibers and Jute Emulsifying Agents for Jute Industry.

MEHS is very committed about the quality of the produced products. We have dedicated Quality Assurance team for procuring the worlds best quality raw materials from the international market and we maintain total quality management for our products. Customer demand and support is our best priority. We are contributing in Bangladesh economy. We give the confidence to the Construction industry of Bangladesh that, **"Bangladeshi Construction Chemicals company can produce the best quality Construction Chemicals which is performing better than Foreign Products"**. Very recent we have started Retail Concrete Admixtures business for adding value to all the private ownership buildings which will be spreaded to all the districts of Bangladesh. We are passionate and very precise in our vision & Strategy. We are proudly announcing that **"we born in Bangladesh."** I appreciate the effort of all the team members of MEHS and encourage to keep struggling for Constructing better tomorrow.

Thanks & Regards,

Engr. A K M Mahmudul Hasan

Our Projects



SKS Tower Mohakhali, Dhaka



ABC RMC



Intraco RMC, Chittagong



Ena RMC, Rajshahi



Development of Cox's Bazaar Airport (Phase-1)



BDC RMC



ADTL RMC

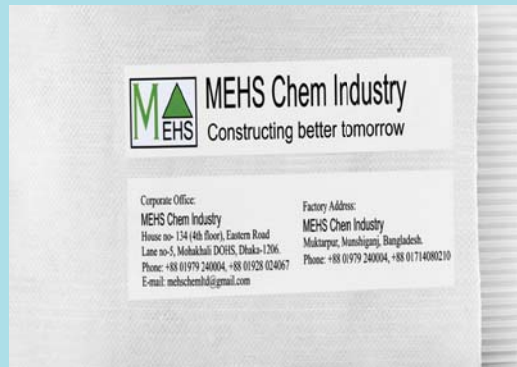


Akij RMC

MEHS Products Portfolio



MEHS Concrete Admixture



MEHS Prefabricated Vertical Drain (PVD).



MEHS Jute Emulsifying Agent for Jute Industry



MEHS Water proofing and Early Strength admixture



MEHS Structural Microfibers for Concrete



MEHS waterproofing membrane



MEHS Concrete Admixture for Retail market



MEHS Heat Reflective coating

Concrete Admixtures

Concrete Admixtures is the Chemicals used in Concrete Mix to enhance the properties of Concrete or Cement.

What Concrete Admixtures does:

Lowering the Water Cement (W/C) Ratio.
Strength Development.

Increase Durability of the Concrete.

Increase Flowability (Slump).

Increase of Slump Retention (Workability).

Improved Properties of Concrete in Plastic State.

Improved Properties of Concrete in Hardened State.

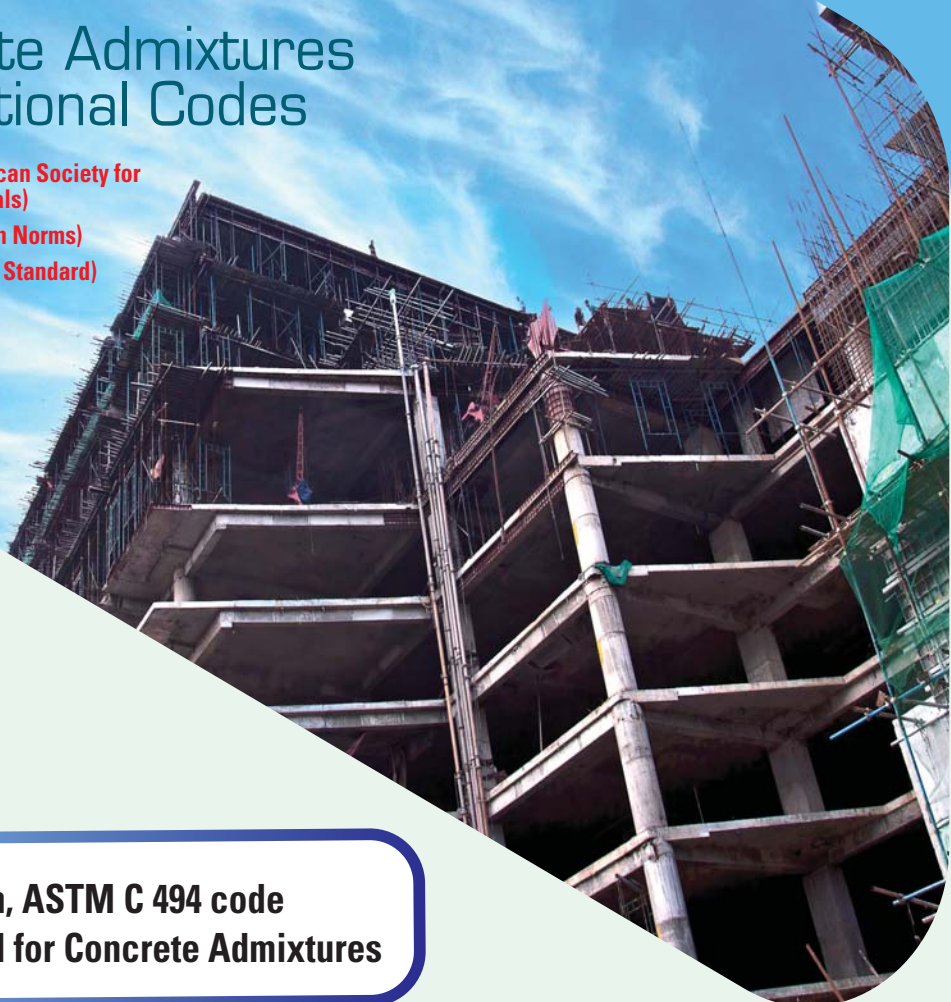
Concrete Admixtures International Codes

ASTM C 494 (American Society for Testing and Materials)

EN 934 - 2 (European Norms)

IS 9103:1999 (Indian Standard)

In Bangladesh, ASTM C 494 code has been used for Concrete Admixtures



MEHS Concrete Admixtures Portfolio

1

MEHS 247- Retarding Superplasticising Admixtures for Concrete.

MEHS 247- Retarding Superplasticising Admixtures for Concrete.

MEHS 247 is based on Sulphonated Napthalene Polymers and supplied as a Dark brown liquid.

MEHS 247 has been specially formulated to give high water reductions upto 20% 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

MEHS 247 complies with IS 9103 & EN 934-2. **MEHS 247** conforms to ASTM C-494 Type 'B', Type 'D' and Type 'G'.

Packaging- **MEHS 247** is supplied in 250kg drums.



2

MEHS 1600 High Range Water reducing superplasticising Admixtures for Rheoplastic Concrete.

MEHS 1600 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
- ✓ Present 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

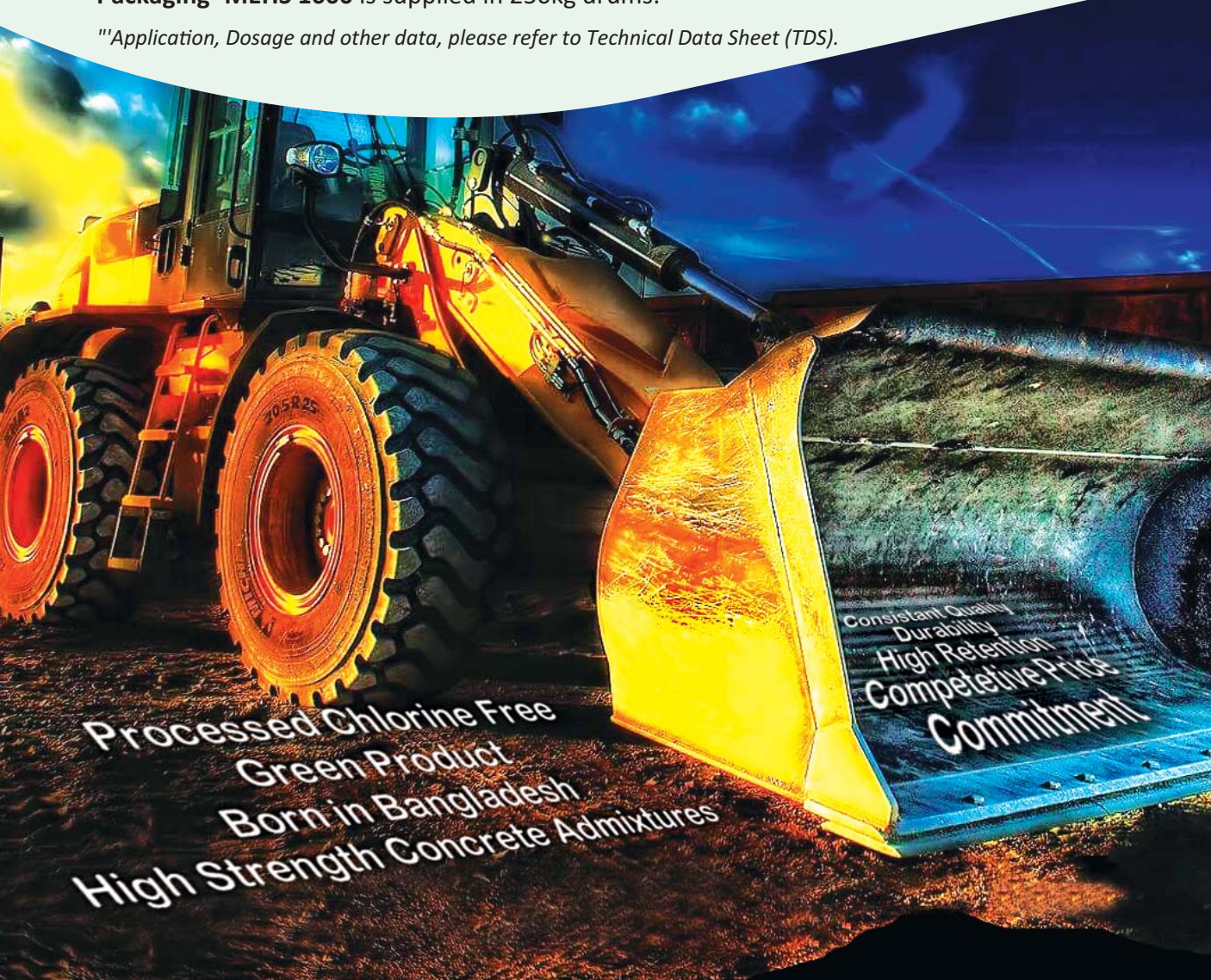
ADVANTAGES

- ✓ 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.

MEHS 1600 complies with IS 9103:1999 & EN 934-2: **MEHS 1600** conforms to ASTM C-494 Type 'A', and Type 'F'.

Packaging- **MEHS 1600** is supplied in 250kg drums.

""Application, Dosage and other data, please refer to Technical Data Sheet (TDS).



Processed Chlorine Free
Green Product
Born in Bangladesh
High Strength Concrete Admixtures

Consistent Quality
Durability
High Retention
Competitive Price
Commitment

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

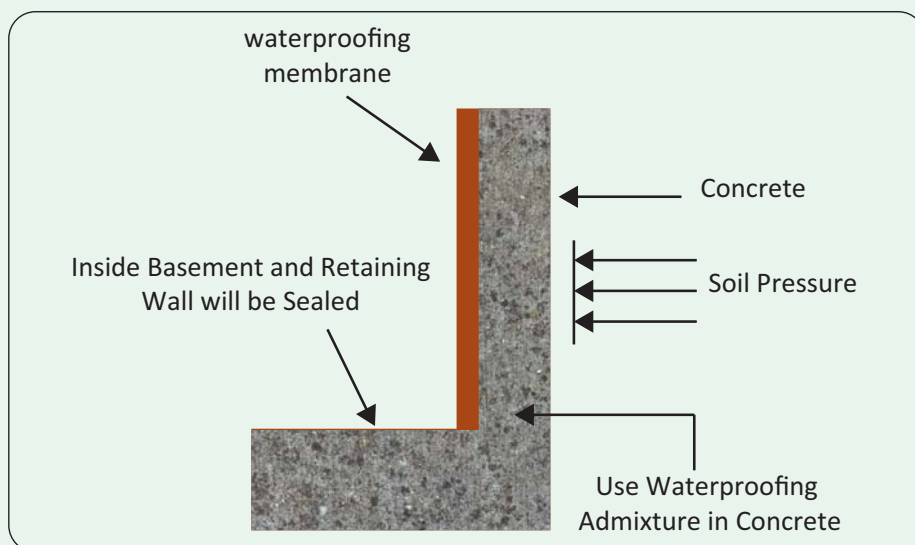
MEHS 14WP is a liquid admixture for concrete to achieve high resistance to water ingress. It is based on a blend of surface active agents and refined lignosulphonate

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



4

MEHS 4814PCE PCE Based Retarding superplasticising admixture for concrete.

MEHS 4814PCE is a unique combination of the latest generation superplasticiser 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. **MEHS 4814PCE** 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.

MEHS 4814PCE complies with IS 9103:1999 & EN 934-2: MEHS 4814PCE conforms to ASTM C-494 Type 'B', Type 'D' and Type 'G'.
Packaging: **MEHS 4814PCE** is supplied in 250kg drums.

"Application, Dosage and other Technical data, please refer to Technical Data Sheet (TDS)."



5

MEHS 4900PCE

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

MEHS 4900PCE 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. MEHS 4900PCE combines the properties of water reduction and workability retention and also allows to produce high performance concrete.

MEHS 4900PCE complies with IS 9103 & EN 934-2. MEHS 4900PCE conforms to ASTM C-494 Type 'F'.

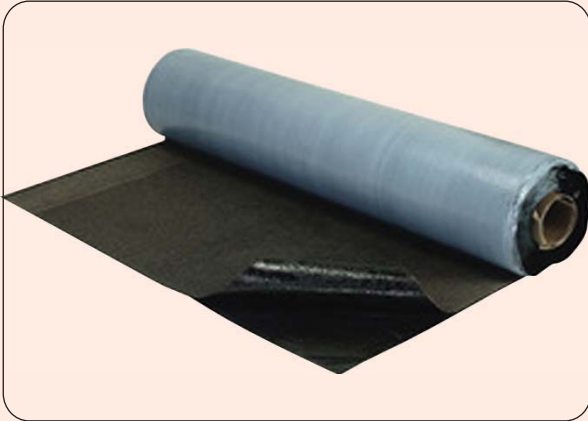
Packaging- MEHS 4900PCE is supplied in 250kg drums.



6

Waterproofing Membrane.

6.a 1.5 mm self Adhesive MEHS Asphalt Bituminous Roofing



6.b 2 mm/3 mm MEHS Torch Applied Bituminous Membrane



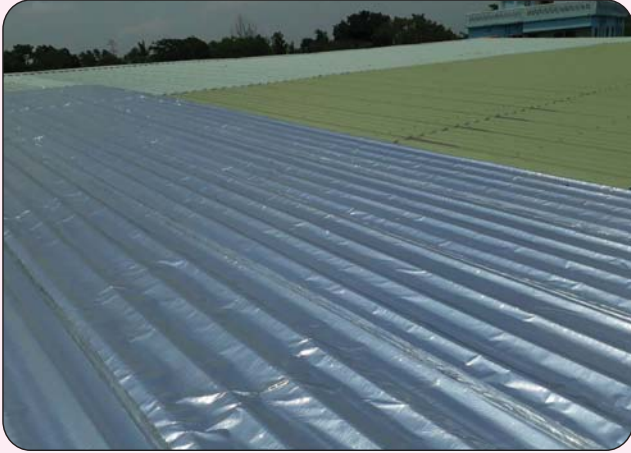
6.c 3 mm MEHS Sand blasted
bituminous membrane



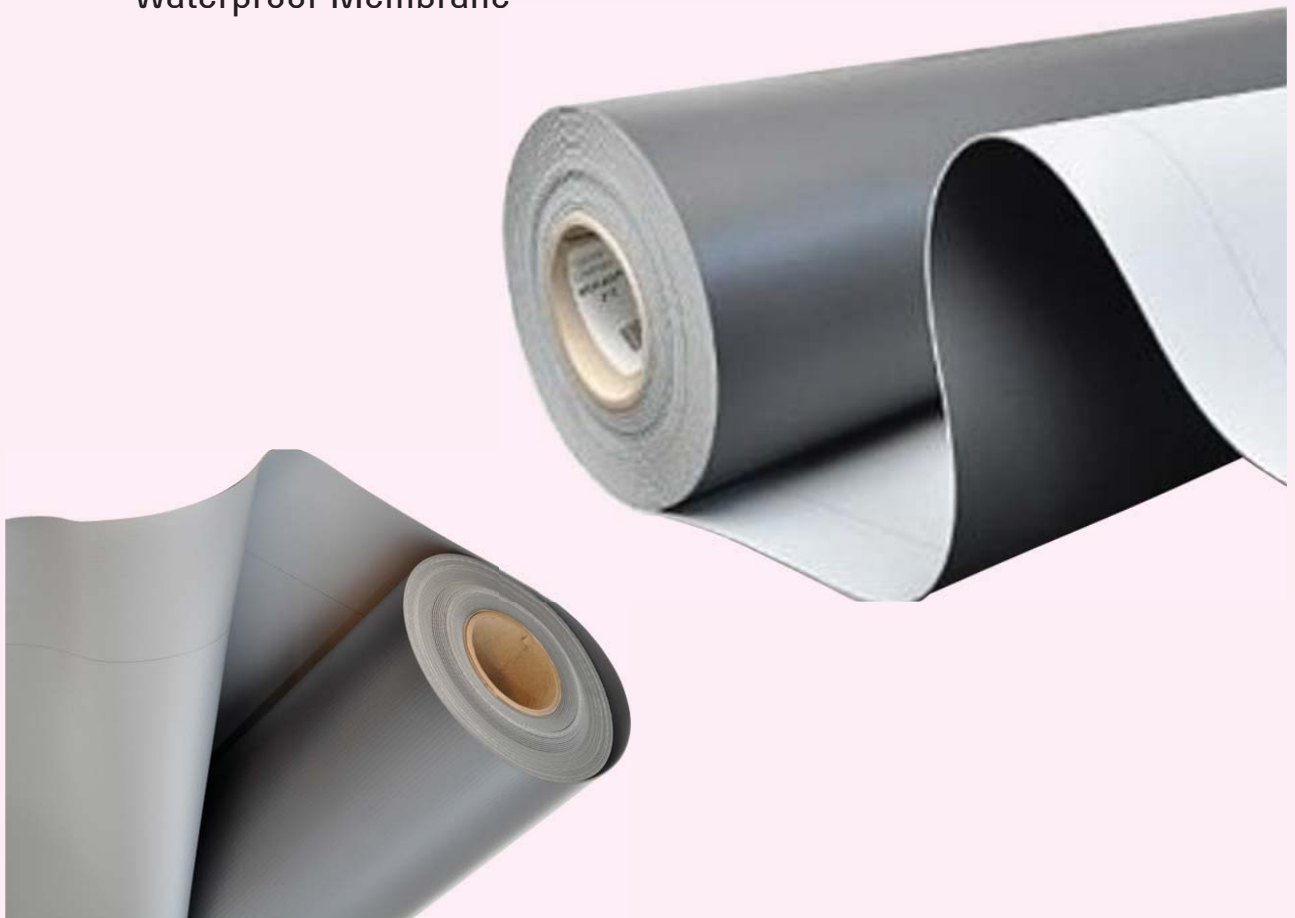
6.d 3 mm MEHS Stone Blasted
Bituminous Membrane



6.e 1.5 mm /2mm MEHS 2000 ALM with
aluminum top surface



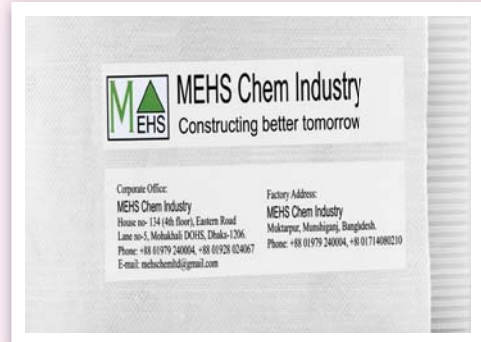
6.f 2 mm MEHS PVC
waterproof Membrane



7

Prefabricated Vertical Drain (PVD)

MEHS Supplies Prefabricated Vertical Drain (PVD). Our PVD principal based on Australia and China. Engineers are often required to build on sites which consist of fine grained, saturated soils that have poor drainage properties. If the soil is not strengthened in advance, the added weight of a new structure will cause water to squeeze out over time. The soil layer will then compress or settle as water is removed.



·"Application. Dosage and other Technical data, please refer to Technical Data Sheet (TDS).

Prefabricated Vertical Drain

SI No	Property	Test Method	Value
A	Prefabricated Vertical Drain(PVD) (Geosynthetic)		
1)	Width		100mm
2)	Thickness		4mm, 4.5mm, 5mm
3)	Extention Strength N/cm	ASTM D 4595	More than 25KN Extention Rate 10%
4)	Roll Length		200m
5)	Permeability(cm/Sec)		$\geq 5 \times 10^{-4}$ Soaked in water for 24Hours
6)	Materials		Polypropylene/Polyethylene
7)	Longitudinal Capacity(cm ³ /s) Flow		More than 25 (Side Pressure=350kpa)
8)	Extention Strength(Kn/10cm)		More than 1.3 for 4mm thickness (Tension: kn/10cm)
9)	Soil Resistance(u/m)		Below 75 (Pore Diameter: $\phi 98$)

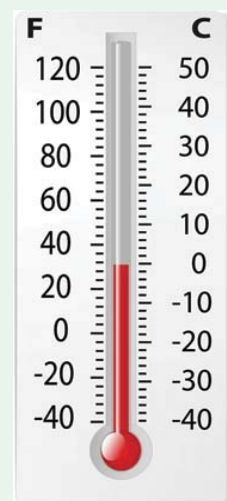
Suitable length for 4mm thickness is 20m

Importer and Distributor in Bangladesh MEHS Chem Industry Ltd.
Country of Origin: China/Australia/UAE.

Beat the Summer Heat with MEHS Heat Reflecting Coating

Heat Reflecting Coating

MEHS Heat Reflective Paint is elastic, ready to use paint, when coated on the roofing materials, reflects sunlight's to a greater extent and prevents the roofing materials from getting heated up, even in peak summer afternoons since it works on the principles of continuous rejection of UV and IR Rays, the roof itself is not getting heated up. So the air below the roof never gets hot, keeping the rooms cool & comfortable. If you want to take Green Building certification for your structure then you must have to use a Heat reflecting Coating, it is also a recommendation from LEED.



Technical Specifications:	Values
Physical Appearance :	Milky white
Coating type	100% pure acrylic base heat insulating paint
Solar Reflectance	As per ASTM C 1549 as per LEEDS standards
Thermal Emittance	Thermal Emittance as per ASTM C1371 as per LEEDS standards
SOLAR REFLECTIVE INDEX (SRI) As per ASTM-E 1980	122 as per LEEDS standards
GRIHA APPROVAL	Included in Approved GRIHA Product Catalogue
IGBC APPROVAL- GREEN CERTIFIED PRODUCT	Included in Approved Product Directory of IGBC
Volatile Organic Contents (VOC)	Less than 10 cc/gm
Toxicity :	Non toxic
Water Absorption :	Water proof coating
High Humidity:	No penetration of water, no loss of adhesion, no blistering, cracking or flaking.
Fungus Resistance	No fungi development
Impact Resistance	56 inch/pound
Chemical Resistance	Stable in mild alkali acid and solvent
Fire resistance :	Not flammable
Adhesion Strength :	40pound/square inch
Abrasion Resistance :	0.5gm/1000cycle
Number of coats :	2 coats
Solids by weight	50%
Dry film thickness	55 micron/coat
Dry Touch @ 30 °C	60 min
Recoating time @ 30 °C	After 4 hour
Curing Mechanism	At ambient temperature paint cures by evaporation of water & coalescence of polymer particles
Viscosity	10 poise
pH	7 to 8
Service Temperature	100 degree centigrade

9

MEHS Structural Microfibers for Concrete

Structural Microfiber for Concrete

MEHS is the first the micro structure synthetic fiber issued by the innovative research program and designed to improved durability and mechanical properties of concrete.

The used of macro synthetic MEHS permits to reduce and eliminate the traditional steel reinforcement of the concrete, increasing tensile strength and ductility.



10

MEHS Jute Emulsifying Agent for Jute Industry-MEHS 9000JE

It is highly concentrated and is suitable for the washing of textiles of all types. Non Ionic detergent for Textile and Emulsifying agent for jute industry.



Compressive Strength Results of MEHS Concrete Admixtures

রসায়ন বিভাগ
বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
ঢাকা-১০০০

Department of Chemistry
Bangladesh University of Engineering and Technology (BUET),
Dhaka-1000, Bangladesh

Date: 09/03/2017

TEST REPORT

Testing of Concrete Admixture supplied by M/S. MEHS Chem Industry, Muktarpur, Munisiganj, Bangladesh as per letter No. Nil, dated - 02/03/2017, BUET reference No. BRTC-1100-76304/Chem/2016-17, dated - 02/03/2017

RESULT

Sl. No.	Sample Code	Parameters determined	Obtained value
1.	MEHS 4814 Pce	i. pH Value	8.85
		ii. Specific Gravity at 25°C	1.08
		iii. Chloride content	Nil

Dr. Md. Rafique Ullah
Professor,
Department of Chemistry,
BUET, Dhaka-1000

Dr. M.I. Nazrul Islam
Professor,
Department of Chemistry,
BUET, Dhaka-1000

Tel: 9665614, PABX: 9665650-80, 8616833-38, Extn-7335, Fax: 880-2-4665622
web site: www.buet.ac.bd, e-mail: head@chem.buet.ac.bd

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)
DEPARTMENT OF CIVIL ENGINEERING
Mobile: 01819 557 964; PABX: 966 5650-80 Ext. 7226; www.buet.ac.bd/cve/

CONCRETE LABORATORY

BRTC No.: 1101-24030 /16-17/CE; Dt: 4/12/2016
Sent by: A.K.M. Mahmudul Hasan, Managing Director, MEHS Chem Industry
Ref. No.: Letter; Dt: 3/12/2016
Project: Not Mentioned
Sample: Cylinder (Mix proportion(as quoted): 1:1.79:2.46; Aggregate Type: Stone chips)
Location: Not Mentioned
Test: Compressive Strength [ASTM C39]
Date of Test: 5/12/2016

TEST REPORT

Sl. No.	Date of Casting as per the Letter	Specimen Designation/ Frog Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	27/11/2016	-	12.17	42,107	3,460	3530 psi	Combined *
2	(8 days test)	-	12.17	44,549	3,681	(24.3 MPa)	Combined *
3	-	-	12.17	42,107	3,460	(243 kg/cm²)	Combined *

Note: Samples were received in unsealed condition. * Combined = Mortar and Aggregate failure.

Countersigned by: Dr. Abu Siddique
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by: Md. Abul Bashir Emton
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Important Notes: Samples as supplied to us have been tested in our laboratory. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/pack/container under signature of the competent authority. In order to avoid fraudulent fabrication of test results, it is recommended that all test reports are collected by duly authorized person, and not by the Contractor/Supplier.

রসায়ন বিভাগ
বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
ঢাকা-১০০০

Department of Chemistry
Bangladesh University of Engineering and Technology (BUET),
Dhaka-1000, Bangladesh

Date: 21/12/2014

TEST REPORT

Testing of Concrete Admixture supplied by M/S. MEHS Chem Industry, Muktarpur, Munisiganj, Bangladesh as per letter No. Nil, dated - 14/12/2014, BUET reference No. BRTC-1100-76304/Chem/2014-15, dated - 14/12/2014.

RESULT

Sl. No.	Sample Code	Parameters determined	Obtained value
1.	MEHS 247	i. pH Value	8.85
		ii. Specific Gravity at 25°C	1.249
		iii. Chloride content	Nil

Dr. Md. Rafique Ullah
Professor,
Department of Chemistry,
BUET, Dhaka-1000

Dr. Md. Nazrul Islam
Professor,
Department of Chemistry,
BUET, Dhaka-1000

Tel: 9665614, PABX: 9665650-80, 8616833-38, Extn-7335, Fax: 880-2-4665622
web site: www.buet.ac.bd, e-mail: head@chem.buet.ac.bd

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DEPARTMENT OF CIVIL ENGINEERING
Mobile: 01819 557 964; PABX: 966 5650-80 Ext. 7226; www.buet.ac.bd/cve/

CONCRETE LABORATORY

BRTC No.: 1100-86275 /14-15/CE; Dt: 19/5/2015
Sent by: MEHSCHEM Industry
Ref. No.: Letter; Dt: 20/5/2015
Project: -
Sample: Cylinder (Mix proportion(as quoted): Not Mentioned, Aggregate Type: Stone chips)
Location: Not Mentioned
Test: Compressive Strength [ASTM C39]
Date of Test: 20/5/2015

TEST REPORT

Sl. No.	Date of Casting as per the Letter	Specimen Designation/ Frog Mark	Specimen Area (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	17/4/2015	-	12.55	59,096	4,709	-	Combined *
2	(33 days test)	-	12.92	62,726	4,855	-	Combined *
3	-	-	-	-	-	-	Combined *

Note: Samples were received in unsealed condition. * Combined = Mortar and Aggregate failure.
Only 2 Nos. cylinders were sent

Countersigned by: Dr. Abu Siddique
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by: Balakshi Bose
Lecturer
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Important Notes: Samples as supplied to us have been tested in our laboratory. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/pack/container under signature of the competent authority. In order to avoid fraudulent fabrication of test results, it is recommended that all test reports are collected by duly authorized person, and not by the Contractor/Supplier.



Ref No: BGD/ 2018-0866 /

Houston, January 16th, 2018.

A K M Mahmudul Haasan
Managing Director
MEHS CHEM INDUSTRY LIMITED

It is an honor to write you on behalf of the WORLDCOB Board of Directors here, an international organization that represents more than 3,000 business members worldwide in more than 120 countries. We extend our most sincere congratulations to you and your team at **MEHS CHEM INDUSTRY LIMITED** for being selected as a winner of **THE BIZZ, Business Excellence Award**.

Your company has been selected for consistently exceeding the evaluation criteria noted in our Business Excellence Questionnaire such as Business Leadership, Quality of Products and/or Services, Management Systems, Innovation and Creativity, Corporate Social Responsibility, and Results Achieved. For this reason, we would like to extend our congratulations once more in recognition of this great achievement.

In addition, as is properly due to all winners, we wish to invite you to attend one of our next prestigious events to be held in three magnificent cities (Prague, Miami Beach and Hong Kong), where our award ceremonies are currently planned. In this way, you will receive the recognition you deserve including the opportunity to share your achievement with other international WORLDCOB members.

I would like to take the opportunity once more to extend our warmest welcome, hoping that both you and your Company will become a part of the **WORLDCOB** family.

We suggest that you contact our Regional Director, **Ms. Kenya Velasco**, by email at kenya.velasco@worldcob.org or by phone at +1 713 3398900 Ext. 3054 or 3020 (USA), as soon as possible in order to receive all the necessary information.

We also request that you extend our sincerest congratulations to your team, which we are sure will feel very proud to receive such good news.

I hope we will have the honor of having you in person at one of our next award ceremonies.

May God bless you.

JESUS MORAN
CHIEF EXECUTIVE OFFICER
WORLD CONFEDERATION OF BUSINESSES



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Telephone: +1 (713) 3398900, Fax: +1 (713) 339823
www.worldcob.org



INTERNATIONAL ARCH OF EUROPE AWARD
30th International Quality Convention FRANKFURT June 30 – July 1, 2017
BID - 31 YEARS OF QUALITY CULTURE RECOGNITION WORLDWIDE

Jose E. Prieto AND **Dayle L. Fickling**
PRESIDENT AND CEO OF CHIEF EDITOR
BID & BID GROUP ONE OF IMPRESS

take great pleasure in informing
MEHS Chem Industry Ltd.
that it has been selected to receive the Award in the
Gold Category

FRANKFURT 2017
INTERNATIONAL ARCH OF EUROPE (IAE)

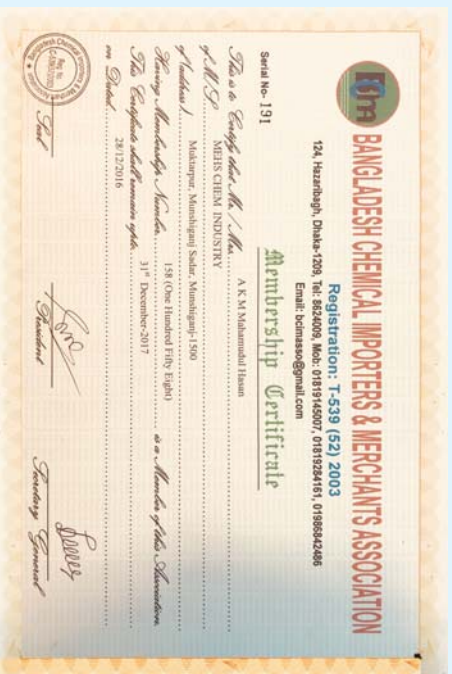
INTERNATIONAL QUALITY CONVENTION

The Gala Dinner and Awards Ceremony will take place at
the Inter Continental Convention Hall in Frankfurt, Germany

INTERCONTINENTAL FRANKFURT HOTEL (WILHELM-LEISCHNER-STRASSE 43, 60229 FRANKFURT, GERMANY)

DATE: SATURDAY, JULY 1, 2017, TIME: 18:30

The award will be awarded by members of the Organizing Committee and in various invited locations on all continents. The award will be awarded by members of the Organizing Committee and in various invited locations on all continents. The award will be awarded by members of the Organizing Committee and in various invited locations on all continents.





Company Profile

MEHS Chem Industry Ltd. has been started its journey as one of the pioneer in the Construction chemicals Industry on 2014. Our well organized Concrete Admixtures plant situated in Muktarpur, Munshigonj which is only 40 KM away from Dhaka .we are one of the key player manufacturing the concrete Admixtures in Bangladesh, our vision is to meet the expanding demand of Concrete Admixtures by supplying renowned Ready Mix Concrete (RMC) manufacturer and to the numbers of infrastructures projects like Power plant, water treatment plant, bridges etc.

Corporate Office:

MEHS Chem Industry Ltd.

House No-134 (4th floor) Eastern Road
Lane-5, Mohakhali DOHS, Dhaka-1206, Tel: +88 02 9833392
Sales Hotline:+880 1909100501, +880 1909100502
Mobile: +88 01928024067, +88 01919004310
E-mail: mehschemltd@gmail.com

Factory:

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Muktarpur, Munshigonj Sadar
Munshigonj, Bangladesh
Mobile: +880 1979240004

Chittagong Office:

MEHS Chem Industry Ltd.

Phone: +88 01975006169
+88 01909100505

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