

BRIEF PRESENTATION



Entity for Innovations..

M/s Entity Waterproofing Pvt. Ltd.

(GOVT. REGISTERED SSI MANUFACTURING ORGANISATION)

(EM No: 19- 017-11- 00289 E (PART- I)

(EM No: 19- 017-11- 01374 E (PART- II)

UDYOG AADHAAR ORGANISATION

(UAN WB14A0007503)



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About Us – A Brief Introduction

Introduction

Most humbly it is being mentioned here that Mr. MM Banerjee is the founder of the company. Although being an electrical engineer from Bangalore, he got engaged with waterproofing treatment since the year 1992 as his family business had been into manufacturing of paraffin wax, wax oil and related products. It was in the year 1992 that Mr. MM Banerjee had developed and innovated a new type of hot applied wax based waterproofing compound and named it as 'brewcoplast' conforming to IS 390 & IS 1322. In those days, scientific waterproofing treatments using various waterproofing compounds were mostly unknown to the common people. The product 'Brewcoplast' was very affordable for common people which performed very well, thus becoming very popular.

Field of work

- After achievement of success in this venture related to scientific waterproofing treatment with 'Brewcoplast', he got the opportunity to successfully serve various private and individual clients, Institutions, Corporate Sectors, Govt. Sectors, etc. and continued until restrictions were imposed due to MOP&NG Act. by the govt., in procuring paraffin wax based raw materials.

Mr. MM Banerjee had been conferred with many prestigious awards and appreciations and had been engaged as technical expert for Lafarge Group and also with many other prestigious corporate sectors, where many of his contents regarding waterproofing treatment had been published in Times JCD Magazine (Joint Venture of Times International & BBC Group), national newspaper (Times of India - Mumbai, Luknow, Ahmedabad editions etc.) as well as in e-magazines, etc. Currently he is also the Director of Metro Infrastructure Development Ltd.


He is also associated with Chamber of Commerce and an active fellow member of Rotary International (MPHF) where he had served various prestigious positions including the post of President for Rotary Club of Salt Lake City. He is holding the position of Assistant District Governor for Rotary International District 3291 for the year 2019 & 2020.



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Test Certificate for first Flagship and innovative product 'Brewcoplast'


 001402 5000063 1994

भारत सरकार
 GOVERNMENT OF INDIA
 राष्ट्रीय जांचशाला, अलीपुर, कलकत्ता
 NATIONAL TEST HOUSE, ALIPORE, CALCUTTA

जांच प्रमाणपत्र
TEST CERTIFICATE

संख्या , तारीख 198
 No. X/Misc/94/15 , dated the 14.6.94 198

Issued to M/S. Gem Industrial Enterprise, V.I.P Enclave, phase-2, Block-A, Room No.201,
 V.I.P Road, Baginathpur, Calcutta-700 059. , तारीख 198
 with reference to letter No. Nil. , dated the 26-4-94 198

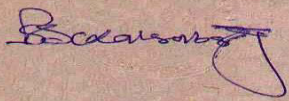
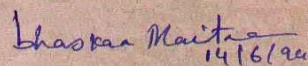
रजिस्टर संख्या , तारीख 198
 Register No. X/Misc/15 , dated the 28-4-94.

नमूना मिलने की तारीख
 Sample received on the 26-4-94.
 One sample described as "Water proofing compound- Brewcoplast" - consisting
 of 6 pieces each of size 12" x 12".

As required, the sample has been tested on the lines of I.S. specifications
 mentioned in the letter under reference with the results noted below :-
Test Results:

1. Water Absorption test.
 (on the lines of IS: 1322-1982)
 water absorbed, percent by mass. : 1.0

2. Water Repellency test :
 (on the lines of IS:390-1975)
 water spray test
 Rating number of the sample. : Equal to 90 of standard spray test Ratings.



 (B. Maity)
 Scientist SB(FHY/RPI)
 for Director E.R., N.T.H., Cal.

ध्यान दें :- इस प्रमाणपत्र का रिपोर्ट की वाणिज्यिक प्रयोजनों के लिए केवल पूर्णरूप से ही प्रकाशित करना चाहिए लेकिन निवेदक, राष्ट्रीय
 जांचशाला, अलीपुर की अनुमति से अनुमोदित सारांश प्रकाशित किया जा सकता है ।
 N.B.— This certificate or report may not be published for commercial purposes except in full, unless permission for the publication
 of an approved abstract has been obtained from the Director, National Test House, Alipore.
 (2) यह प्रमाणपत्र केवल उन्हीं नमूनों के दिवें हैं जिनकी जांच की गई है जैसा कि प्रेस नोट में जो कि भारत सरकार के द्वारा जारी
 किया गया है और जांच प्रमाण कि जो कि राष्ट्रीय जांचशाला द्वारा किया जाता है की पुस्तक के पृष्ठ 5 पर दिया गया है ।
 (2) This Test Certificate applies only to samples tested as mentioned in the "PRESS NOTE" shown at page (V) in the Govt. of
 India Publication "Schedule of Testing Charges Levied by National Test House and related Information."
 राजाघाट/N. T. H. S.
 GMGP (Publication Unit), Sant.—S19—4 १९७४/८४ -1-2-85—1,000 Pads,



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Our Waterproofing Journey ...

- Our Journey in the field of waterproofing treatment continued with various products available in the market where we had successfully continued with all types of waterproofing treatment jobs including specialty jobs such as Heat Insulation cum Waterproofing, Epoxy Flooring, Soil Grouting, Epoxy / PU Guiniting, Expansion Joint & Contraction Joint Treatment, Anti-static Flooring, Scientific Rehabilitation & Restoration of Buildings, sub-structure acute leakage treatment, etc.



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Certificates & Appreciations

- We had received many certificates of appreciation during these long journey of ours, where we had always kept in mind to dedicatedly do our job with utmost care and contribute to the society.
- Some of our Certificates & Appreciations are given in next few slides.



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Certificates from LAFARGE & BOSTIK



To whom it may concern

This is to certify that **Sri M.M. Banerjee**, Proprietor, M/s Gem Industrial Enterprise & CEO M/s Vivek Udyog; is a consultant & professional member/ expert in the field of waterproofing treatment, pressure grouting, epoxy flooring, scientific structural repairing, renovation/ retrofitting and allied works and have undertaken numerous jobs in the above-motioned field successfully with excellent workmanship.

He is associated with Lafarge Homebuilding Centre as a 'Professional Member', for the past couple of years, and provides technical guidance to our general members in regard to water proofing at our 'Meet The Expert' sessions regularly.

His dedication and sincerity is heartily appreciated.

Wishing him successful and prosperous future.

For Lafarge Homebuilding Centre

Siben Talukdar
Siben Talukdar
Centre Head
Dated: 23/07/07

1E, Sukhsagar Apartments
2/5, Sarat Bose Road, Kolkata: 700 020
Telephone: 24851476, 40033287

HOMEBUILDING CENTRE
Sukhsagar Apartments - 3rd Floor
2/5 Sarat Bose Road - Calcutta 700 020



TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Shri M.M. Banerjee** - proprietor of **M/s GEM INDUSTRIAL ENTERPRISE**, A/ 201 V.I.P. Enclave, Phase II, V.I.P. Road, Kolkata 700 039 is our Authorised Specialized Applicator of Class I Category.

He has undertaken various jobs successfully related to waterproofing treatment, pressure grouting, injection grouting, expansion joint treatment, epoxy flooring, epoxy grouting and structural repair and rehabilitation. He also specializes in heavy duty repair/ restoration of concrete roads / pavements works.

For BOSTIK INDIA PRIVATE LIMITED

For Bostik India Pvt Ltd.

Abhishek
Authorized Signatory

Bostik India Private Limited
124/1 & 124/2A, Kachanayakanahalli, Off Horur Road
(Behind Bommasandra Indl. Area) Hennagara Post,
Anekal Taluk Bangalore - 562 106
Tel : 91 80 278 33525 Fax : 91 80 278 32401
A company of TOTAL





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Certificate from Gun & Shell Factory & OFDD (Ministry of Defence, Govt. Of India)

Gun & Shell Factory, Cossipore, Kolkata
Ministry of Defence, Government of India.

Certificate of Appreciation

This is to certify that Sri M M Banerjee, CEO, M/s Vivek Udyog, Registered Office: A/210, 2nd Floor, VIP Enclave, Phase-II, VIP Road, Kolkata-59; has undertaken and successfully executed Epoxy Flooring Treatment System (PO No: 061815GS (19) dated: 12.03.07.) at our factory premises with excellent workmanship.

I heartily appreciate their workmanship, sincerity and dedication and wish them a prosperous future.

Rajeev Kumar
23.05.08

For General Manager,
Gun & Shell Factory, Cossipore, Kolkata,
Ministry of Defence, Government of India.

Dated: 23.05.08

RAJEEV KUMAR
Works Manager
Govt. of India, Min. of Defence
Gun & Shell Factory
Cossipore, Kolkata-2

Ref No:

Date:

Certificate of Appreciation

TO WHOM IT MAY CONCERN

This is to certify that under the leadership of Sri M M Banerjee, CEO, M/s Vivek Udyog, Registered Office: A/210, 2nd Floor, VIP Enclave, Phase-I, VIP Road, Kolkata-59, the said firm has successfully executed Epoxy Flooring Treatment System (ISO No: 060957M 01 dated: 23.03.07) at our factory premises with excellent workmanship.


I heartily appreciate their sincerity and dedication and wish them prosperous future.

Rajeev Kumar
23.05.08
RAJEEV KUMAR
Works Manager
Govt. of India, Min. of Defence
Gun & Shell Factory, Cossipore, Kolkata-2
Kolkata-700 028.



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FAX NO : (033) 5612196
tel : 8256-88 88
E-mail/Telax : 021-5117
Telegraph : OFDUM
fax Phone : 566-3106/1643/5237



श्री गुरु नानक देव जी
१५३९ ई।स.
गुरुदेव जयते
स्वास्ति सर्वत्र
Government of India
Ministry of Defence
ORDNANCE FACTORY, DUM DUM
Calcutta-700 029

Ref No. 052/P.TC/OEDS/KER/05-06
Date: 29-02-06-19

Sgt. KCHOPRA
From: THE GENERAL MANAGER

TO WHOM IT MAY CONCERN

This to certified that M/s GEM INDUSTRIAL ENTERPRISE A/201, 2nd Flr.VIP Enclave, Phase II, VIP Road, Kolkata-59 has satisfactory done Flooring work in PTC Section at ORDNANCE FACTORY DUM DUM KOLKATA -28.

I, hope the organization will get more success in future.

[S.K.RAY]
JOINT GENERAL MANAGER
FOR GENERAL MANAGER

 **GeM INDUSTRIAL ENTERPRISE**
A2, 22 Lake View Road, Kolkata 700 029 & A/221, K. S. P. Estate Phase II, V. T. P. Road, Kolkata 700 029
Phone : 2330 0901, 2331 1881, 2465 7118, Mobile : 93311 68291, 9309 5718 Fax: 233 3484 1681
e-mail : enquiry@gemindia.com GRAM : TRACLEADER

Regd. Office
30, S.P.O. Ma. Gumbaz, Habra Dist. 24 Pgs. (N) West Bengal

Ref. No. GIE / CPWD/CC1/ 04-05

To
The Assistant Engineer,
Central Public Works Department,
CCD-II, CPWD, Nizam Palace, Kol- 20.

Date: 06.01.2005

Subject: Successful completion of work.

Name of work: Construction of combined building project of R.T.C. (E) of AY/NIMH & NIMH at NIOH Campus, Boonbhoughy, Kolkata. SH: Providing waterproofing treatment to the chajjas and Projected bands of the Girls Hostel and Staff Quarters.

Dear Sir,

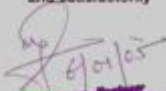
This is for your kind information that the work awarded to us, vide Work Order Ref. No. AE-II/KCD-II/NIMH/135, dated 06.12.04 of above given details, has been completed successfully within the stipulated period on 06.01.2005.

Assuring you best of services from our end in all times.

Thanking you,
Yours faithfully,


For GeM Industrial Enterprise
M M Banerjee, *Proprietor & P.E.*

Work completed successfully
and satisfactorily



Assistant Engineer
CCD-II, CPWD, No II, CCD
Nizam Palace
Kolkata-20

Signature of certifying authority

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Certificate of Advanced Training



DR. FIXIT INSTITUTE

This is to certify that Mr./Ms. M. M. Banerjee has participated
in the "TRAINING PROGRAMME" jointly organised by **DR. FIXIT INSTITUTE &**
BENGAL ENGINEERING COLLEGE for building Expertise through knowledge of
Material and Technology on Waterproofing and Maintenance

Date: 25th September, 2004

Place: B. E. College

Indanar
For Bengal Engineering College

M. B. Bruslahi
For Dr. Fixit Institute


Pidilite Industries Ltd.
(Construction Chemicals Division)



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Problems Observed.....

A) Problems Observed – Regarding Waterproofing Treatment

- By the late nineteen nineties and early two thousands many construction chemical companies did come up in the market with awareness campaigning and aggressive marketing. They also started manufacturing wide range of waterproofing products. Within next couple of years, the competition increased to such an extent that the market got filled-up with large number of applicators, where a major portion of applicators were not technically sound enough in scientifically using the products as prescribed by the manufacturing companies, thus transforming applicator firms into unorganized sector with lot of confusion and poor workmanship. This resulted to failure and occurrence of recurring problems and huge expenses including loss of goodwill and litigations as waterproofing makes up around 2% of the total cost of construction .
- As per article by 'Wet – Seal' (Member of Australian Institute of Waterproofing) titled : "Waterproofing – Common Causes of Failure" , waterproofing makes up between 1% and 2% of the total cost of construction of a building, but accounts for up to 80% of the complaints and huge costs in rectification.
- **The single biggest cause of waterproofing failure is workmanship.** Poor workmanship would account for 90% of all failures in waterproofing.

B) Problems Observed – Regarding Corrosion Proofing of TMT Bars & Others

- Another problem which was observed was non availability of low cost alternative solution for corrosion protection of reinforcement bars (TMT Bars) as mostly the reinforcement bars are inserted into concrete in mildly rusted / medium rusted condition without corrosion protection. This results in corrosion of TMT Bars thereby loosing it's basic characteristics within a period of two / three decades, thereby causing damage / failure to the RCC Structure. So no matter how good the quality of TMT Bars are, if the same is not corrosion protected, quality of TMT Bars starts deteriorating from the day one.

Requirement of Market - 1 :-

COMPREHENSIVE WATERPROOFING TREATMENT

- ✓ REQUIREMENT OF THE MARKET :-
 - In order to address to 1st problem as mentioned in previous slide we found out that the requirement of the market is to manufacture a focused and narrow range of quality products and economically priced waterproofing chemicals requiring lower dosage, which should be non confusing, not over prescribed, with easier application rather than the prevailing products available in the market; engaging highly experienced in-house application team so that comprehensive warranty can be provided (which includes warranty for product and also for workmanship) to the client by the manufacturing company, with step-by-step check list for the benefit of client.

Requirement of Market - 2 :-



HASSLE FREE SOLUTION OF CORROSION RELATED PROBLEMS

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- ✓ REQUIREMENT OF THE MARKET :-
 - In order to address to 2nd problem as mentioned in previous slide we found out that the requirement of the market is to manufacture a suitable primer for CORROSION PREVENTION, CORROSION PROTECTION & CORROSION CONVERSION with **very easy on-site application process**, where **blasting is not required**, which should be **non-hazardous** as well as **very economical in nature**, where corrosion protection of binding wires and cut ends are possible.



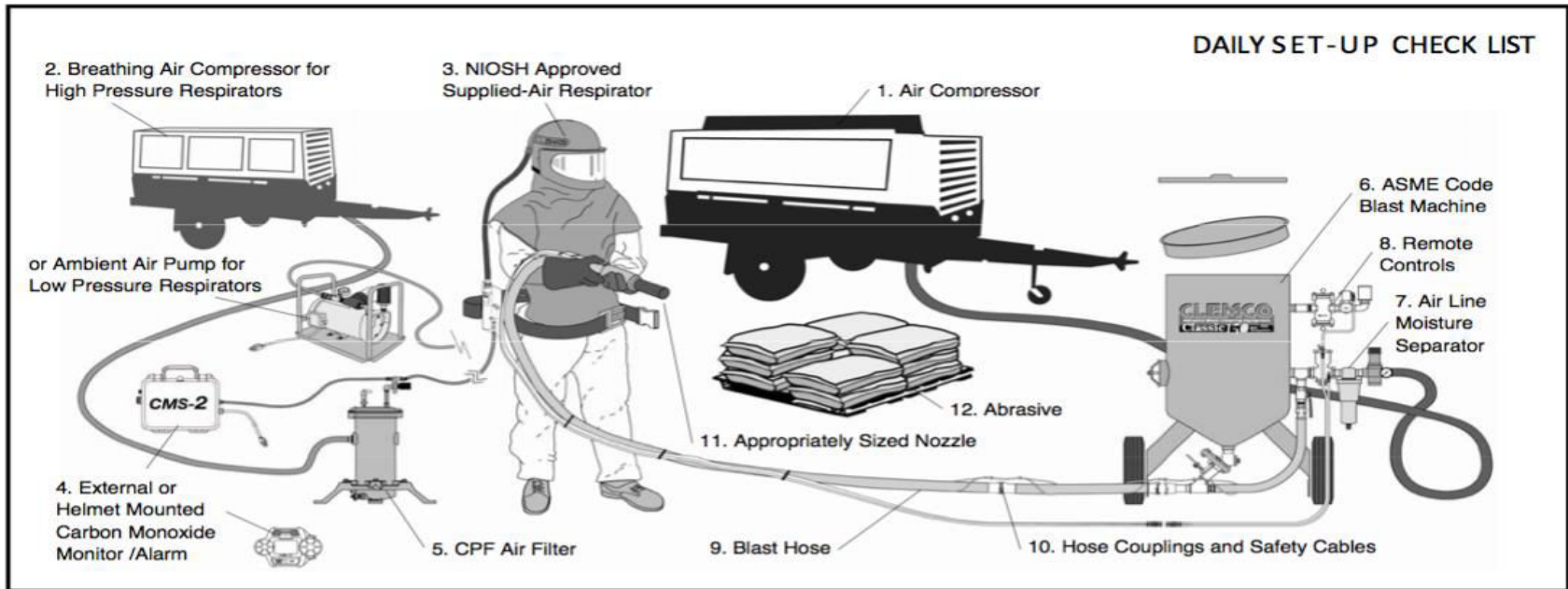
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What is Abrasive Blasting such as Sand Blasting etc. & Why is it done ?

- Blasting or Blast Cleaning which is normally done with abrasive materials such as abrasive grit , or abrasive sand , is a surface treatment **process** widely used in a variety of different industries with many diverse purposes mainly for preparation of surface profile which should be rough and for removal of existing rust from the surface. Abrasive **blasting** is the **process** by which an abrasive media is accelerated through a **blasting** nozzle by means of compressed air where the minimum air pressure should be not less than **90 psi**
- There are various types of Abrasive Materials used from blasting such as sand, metal grits, metal shots, glass beads, copper slag, aluminium oxide etc.
- Wet Blasting can also be done with addition of water to the Blasting system.



Abrasive Blasting Process & it's disadvantages :-



Disadvantages of Abrasive Blasting :-

Costly | Highly inconvenient to use | Spreads acute Air Pollution | Hazardous | Life Risk | Requires Skilled Labour | More time consuming | Needs immediate protection from re-rusting | Spreads Sound Pollution | Needs heavy duty Safety Gadgets | Needs permission for competent authority | Not viably possible to be done on-site in case of TMT Bars , wires, nails, grills, fencing etc. other than surfaces with reasonably wide area of contact.



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How did we address to these issues ?

How did we address to the issues ?

- We, being in the market for the past two decades took initiative to address to the issues arising out of the already mentioned problems. Thus Entity Waterproofing Pvt. Ltd. was formed which is a SSI Registered Company under MSME (Udyog Adhar) having it's manufacturing unit at Canal Circular Road, Kolkata. Our Marketing Office is located at RDB Boulevard Sector V, Salt Lake , Kolkata and our Back Office is at SP Sukhobrishti, New Town, Kolkata.
- We started manufacturing of corrosion proofing chemicals where we developed an innovative product named NO RUST TM which is very easy to apply (single coat is generally sufficient in most of the cases) with on-site application and can be directly applied upon rusted surface and the cost of same is economical and non-hazardous due to non requirement of surface preparation by sand blasting / grit blasting etc.
- We started manufacturing a focused range of waterproofing chemicals of high quality standards but at reasonable price and developed in-house team for execution of works.



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PRODUCTS :- NO RUST™



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TM

The ultimate solution from rusting and corrosion damage

SALIENT FEATURES:

NO RUST™ is an innovative single component pale brownish 3-in-1 reactive impregnating liquid primer solution which works as 1) anti-corrosion 2) rust conversion 3) corrosion prevention solution. NO RUST™ does not have peel-off characteristics because of its 'impregnated form' after completion of curing period. NO RUST™ meets and exceeds requirement as per IS 13515 specifications.

Property: NO RUST™ is mild acidic in nature but it is non-toxic, non-flammable, non-polluting, water based, with lowered surface tension and delayed drying time so as to enhance the duration of reaction and penetration period, having penetrating capacity through the porous rust layer (wherever applicable) right upto the substrate, for thorough reaction and enhance effectiveness.

Working Mechanism: NO RUST™ chemically reacts with non-rusted as well as rusted mild steel (MS) or cast iron (CI) surface in order to convert same into an organo-complex compound, resulting in the formation of a stable layer of good mechanical stability and binding capability.

Scope: NO RUST™ can be applied upon any mild steel surface, cast iron surface and upon any adamantly adhering rusted surface. NO RUST™ is suited as base primer solution for subsequent protecting coats for exposed portions.

Protection of TMT / Deformed / Re-bars: NO RUST™ is strongly recommended to be applied upon non-rusted as well as adamantly adhered rusted Re-bars / TMT Bars / Deformed Bars, Billets, Beams etc. for the portions to be embedded inside concrete.

No Blasting Requirement: Where NO RUST™ is used conventional Blasting is not required for removal of rust from the substrate. Use of NO RUST™ not only saves cost and time to a huge extent, the hazards and pollution caused due to Blasting are eliminated without compromising upon work quality.

Non-requirement of Conventional Primers: No primer is required where NO RUST™ is used. NO RUST™ is very useful and cost effective alternative to conventional primers - where coverage of conventional primer is very low with double coats and labour cost on account of rust removal, surface preparation and application in case of primer is very high along with recurring expenses for maintenance purpose on shorter intervals.

AREAS OF APPLICATION:

TMT BARS / RE-BARS / DEFORMED BARS, GRILLS, GATES, RAILING, METAL RESERVOIR, RODS, FLAT, ANGLE, CHANNEL, BEAMS, STRUCTURAL STEEL, METAL POSTS, CAST IRON ITEMS, SHEET METALS, METAL SCAFFOLDING, WIRES / BARBED WIRES, NUTS & BOLTS, NAILS, METAL ROPES, FENCING, TOOLS, EQUIPMENTS, MACHINERY, AUTOMOBILES, SHIPS, BRIDGES, METAL AD BOARDS, ETC.

TECHNICAL DETAILS:

COLOUR : Pale Brownish

TYPE : Liquid

Odour : Mild Pungent

V.O.C : 0.81 lb/gal (97 g/l)

DENSITY : 9.79 lb/gal mixed (1.17 kg/l)

DRY TIME 3 - 5 hours (25°C) 80% R.H.

FLASH POINT : Not Applicable

METHOD OF APPLICATION:

As NO RUST™ is a single component 3-in-1 product, application of NO RUST™ is very easy and can be done (single coat) after mechanical cleaning of dirt dust, flaking rust, flaking paint, oil, grease etc. with ordinary Paint Brush, Rag, Spray Gun or by Dipping process wherever applicable.

COVERAGE:

1 Kg. of NO RUST™ gives coverage of 150 Sq. Ft. (or around 14 Sq. M.) under controlled conditions.

PACK SIZE:

100 g, 500 g, 1 Kg, 5 Kg, 25 Kg, 35 Kg, 50 Kg, 100 Kg

SAFETY PRECAUTIONS:

- Keep out of the reach of children.
- Do not ingest.
- If any material comes into contact with eyes or skin then wash immediately with plenty of water.
- MSDS available for further details.

CAUTION:

Do not dilute with water.

DISCLAIMER:

The technical data given herein has been compiled for the help and guidance of the metal pre-treatment personnel and is based upon our experience and knowledge. However as we have no control over the way the chemicals are used, and the nature of surface in which these chemicals are used, no warranty express or implied is intended or given. No responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein.



ENTITY WATERPROOFING PVT. LTD.

(Govt. Registered SSI Manufacturing Unit)

EM No. : 19-017-11-00289 E (Part-I), EM No. 19-017-11-01374 E (Part-II)

8th Floor, RDB Boulevard, Plot K-1, Block EP & GP,

Sector V, Salt Lake, Kolkata - 700 091, India

Phone : +91 (33) 66374470 Fax : +91 (33) 66374999

Email : entitywaterproofing@gmail.com

Website : www.entitywaterproofing.com



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Other uses of NO RUST™

NO RUST™ can also be effectively used for :-

- a) Rust scale removal of congested pipelines
- b) De-scaling / cleaning of clogged pipelines
- c) Cleaning of Shower holes
- d) As a rust / corrosion inhibitor of radiators
- e) As rust / scale inhibitor for boiler tubing
- f) Freeing of jammed equipments & tools
- g) Restoration of old equipments

NO RUST™ - PI



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The ultimate solution from rusting and corrosion damage

SALIENT FEATURES:

NO RUST™ - PI is an innovative single component premium industrial grade pale brownish 3-in-1 reactive impregnating liquid primer solution which works as 1) anti-corrosion 2) rust conversion 3) corrosion prevention solution. **NO RUST™ - PI** does not have peel-off characteristics because of its 'impregnated form' after completion of curing period. **NO RUST™ - PI** meets and exceeds requirement as per IS 13515 specifications.

Property: **NO RUST™ - PI** is mild acidic in nature but it is non-toxic, non-flammable, non-polluting, water based, with lowered surface tension and delayed drying time so as to enhance the duration of reaction and penetration period, having penetrating capacity through the porous rust layer (wherever applicable) right upto the substrate, for thorough reaction and enhance effectiveness.

Working Mechanism: **NO RUST™ - PI** chemically reacts with non-rusted as well as rusted mild steel (MS) or cast iron (CI) surface in order to convert the same into an organo-complex compound, resulting in the formation of stable layer of good mechanical stability and binding capability.

Scope: **NO RUST™ - PI** can be applied upon any mild steel surface, cast iron surface and upon any adamantly adhering rusted surface. **NO RUST™ - PI** is suited as base primer solution for subsequent protecting coats for exposed portions where it is compatible with Epoxy Paints.

No Blasting Requirement: Where **NO RUST™ - PI** is used conventional Blasting is not required for removal of rust from the substrate. Use of **NO RUST™ - PI** not only saves cost and time to a huge extent, the hazards and pollution caused due to Blasting are eliminated without compromising upon work quality.

Non-requirement of Conventional Primers: No primer is required where **NO RUST™ - PI** is used. **NO RUST™ - PI** is very useful and cost effective alternative to conventional primers - where coverage of conventional primer is very low with double coats and labour cost on account of rust removal, surface preparation and application in case of primer is very high along with recurring expenses for maintenance purpose on shorter intervals.

AREAS OF APPLICATION:

FLAT, ANGLE, CHANNEL, BEAMS, STRUCTURAL STEEL, PIPELINE, METAL POSTS, SHEET METALS, CAST IRON ITEMS, METAL SCAFFOLDING, TMT BARS / RE-BARS / DEFORMED BARS, GRILLS, GATES, RAILING, METAL RESERVOIR, RODS, WIRES / BARBED WIRES, TOOLS, EQUIPMENTS, MACHINERY, AUTOMOBILES, SHIPS, BRIDGES, METAL AD BOARDS, NUTS & BOLTS, NAILS, METAL ROPES, FENCING ETC.

TECHNICAL DETAILS:

COLOUR: Pale Brownish ; **TYPE:** Liquid ; **Odour:** Mild Pungent ; **V.O.C:** 0.81 lb/gal (97 g/l) ; **DENSITY:** 9.79 lb/gal 1.17 kg/l)
DRY TIME: 3 - 5 hours @ 77°F (25°C) 80% R.H. ; **FLASH POINT:** Not Applicable

METHOD OF APPLICATION:

As **NO RUST™ - PI** is a single component 3-in-1 product, application of **NO RUST™ - PI** is very easy and can be done (single coat) after mechanical cleaning of dirt dust, flaking rust, flaking paint, oil, grease etc. with ordinary Paint Brush, Rag, Spray Gun or by Dipping process wherever applicable.

COVERAGE: 1 Kg. of **NO RUST™ - PI** gives coverage of 150 Sq. Ft. (or around 14 Sq. M.) under controlled conditions.

PACK SIZE: 100 g, 500 g, 1 Kg, 5 Kg, 25 Kg, 35 Kg, 50 Kg, 100 Kg

SAFETY PRECAUTIONS:

Keep out of the reach of children. Do not ingest. If any material comes into contact with eyes or skin then wash immediately with plenty of water.

CAUTION: Do not dilute with water. Do not contaminate.

DISCLAIMER: The technical data given herein has been compiled for the help and guidance of the metal pre-treatment personnel and is based upon our experience and knowledge. However as we have no control over the way the chemicals are used, and the nature of surface in which these chemicals are used, no warranty express or implied is intended or given. No responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein.

ENTITY WATERPROOFING PVT. LTD.

(Govt. Registered SSI Manufacturing Unit)
EM No. : 19-017-11-00289 E (Part-I), EM No. 19-017-11-01374 E (Part-II)
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Entity for Innovations..

NO RUST™ - POLYMER



NO RUST™ -POLYMER

The ultimate solution from rusting and corrosion damage

SALIENT FEATURES:

NO RUST™ - POLYMER is an innovative single component polymer based whitish 3-in-1 reactive impregnating liquid primer solution which works as 1) anti-corrosion 2) rust conversion 3) corrosion prevention solution. NO RUST™ - POLYMER does not have peel-off characteristics because of its 'impregnated form' after completion of curing period. NO RUST™ - POLYMER meets and exceeds requirement as per IS 13515 specifications.

Property: NO RUST™ - POLYMER is mild acidic in nature but it is non-toxic, non-flammable, non-polluting, water based, with lowered surface tension and delayed drying time so as to enhance the duration of reaction and penetration period, having penetrating capacity through the porous rust layer (wherever applicable) right upto the substrate, for thorough reaction and enhance effectiveness.

Working Mechanism: NO RUST™ - POLYMER chemically reacts with non-rusted as well as rusted mild steel (MS) or cast iron (CI) surface in order to convert the same into an organo-complex compound, resulting in the formation of stable layer of good mechanical stability and binding capability.

Scope: NO RUST™ - POLYMER can be applied upon any mild steel surface, cast iron surface and upon any adamantly adhering rusted surface. NO RUST™ - POLYMER is suited as base primer solution for subsequent protecting coats for exposed portions where it is compatible with Epoxy Paints.

No Blasting Requirement: Where NO RUST™ - POLYMER is used conventional Blasting is not required for removal of rust from the substrate. Use of NO RUST™ - POLYMER not only saves cost and time to a huge extent, the hazards and pollution caused due to Blasting are eliminated without compromising upon work quality.

Non-requirement of Conventional Primers: No primer is required where NO RUST™ - POLYMER is used. NO RUST™ - POLYMER is very useful and cost effective alternative to conventional primers - where coverage of conventional primer is very low with double coats and labour cost on account of rust removal, surface preparation and application in case of primer is very high along with recurring expenses for maintenance purpose on shorter intervals.

AREAS OF APPLICATION:

FLAT, ANGLE, CHANNEL, BEAMS, STRUCTURAL STEEL, PIPELINE, METAL POSTS, SHEET METALS, CAST IRON ITEMS, METAL SCAFFOLDING, TMT BARS / RE-BARS / DEFORMED BARS, GRILLS, GATES, RAILING, METAL RESERVOIR, RODS, WIRES / BARBED WIRES, TOOLS, EQUIPMENTS, MACHINERY, AUTOMOBILES, SHIPS, BRIDGES, METALAD BOARDS, NUTS & BOLTS, NAILS, METAL ROPES, FENCING ETC.

TECHNICAL DETAILS:

COLOUR: Whitish ; TYPE: Liquid ; Odour: Mild Pungent ; V.O.C: 0.81 lb/gal (97 g/l) ; DENSITY: 9.79 lb/gal 1.17 kg/l
DRY TIME: 3 - 5 hours @ 77°F (25°C) 80% R.H. ; ELAST POINT: Not Applicable

METHOD OF APPLICATION:

As NO RUST™ - POLYMER is a single component 3-in-1 product, application of NO RUST™ - POLYMER is very easy and can be done (single coat) after mechanical cleaning of dirt dust, flaking rust, flaking paint, oil, grease etc. with ordinary Paint Brush, Rag, Spray Gun or by Dipping process wherever applicable.

COVERAGE: 1 Kg. of NO RUST™ - POLYMER gives coverage of 100 Sq. Ft. (or around 11 Sq. M.) under controlled conditions.

SHELF LIFE: Eighteen months in unopened condition

PACK SIZE: 100 g, 500 g, 1 Kg, 5 Kg, 25 Kg, 35 Kg

SAFETY PRECAUTIONS:

Keep out of the reach of children. Do not ingest. If any material comes into contact with eyes or skin then wash immediately with plenty of water.

CAUTION: Do not dilute with water. Do not contaminate.

DISCLAIMER: The technical data given herein has been compiled for the help and guidance of the metal pre-treatment personnel and is based upon our experience and knowledge. However as we have no control over the way the chemicals are used, and the nature of surface in which these chemicals are used, no warranty express or implied is intended or given. No responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein.

ENTITY WATERPROOFING PVT. LTD.

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Entity for Innovations..

ENTITY INTEGRAL WP



ENTITY WATERPROOFING PVT. LTD.

ENTITY INTEGRAL WP
Integral Liquid Waterproofing Cement Admixture

Description

ENTITY INTEGRAL WP is specially formulated additive composed of cement compatible, surface active agent (surfactant). It is used as an additive for cement concrete / mortar/plasters and because of plasticizing properties, makes concrete cohesive and prevents segregation. It improves the integral waterproofing properties of cement concrete and plasters after curing.

Features & Benefits:

Compatibility: Being a liquid, easily dispersible and compatible with concrete / mortar mixes etc. **Cohesiveness:** Makes the concrete / mortar more cohesive, hence no bleeding and segregation. **Durability:** Increases durability by improving integral waterproofing of concrete. **Breathing:** It retains the breathing efficiency of concrete. **Permeability:** It reduces the permeability of water into concrete. **Economics:** It is an economical additive as compare to other similar materials. **Strength:** The setting time and compressive strength of the concrete remains within the specification limits. **Shrinkage:** Reduces shrinkage crack development in plaster and concrete.

Technical Data:

Conforms to : IS 2645 – 1975; IS 9103 – 1999; ASTM C-494-86, Type A • Appearance : Light Yellowish • Nature : Single component, Liquid • Water Solubility : Soluble • Specific Gravity at 30 degree C : 1.05 +/-0.02 g/cc • pH Value : 8.5-9.00 • Compatibility : Compatible with all types of cement Chloride Content : Nil as per BS – 5075 PART 1 & IS 6925

Areas of Application

All type of construction related works wherever cement is required. Waterproofing of concrete and sand-cement mortar used in basements, roof slabs and screeds, water tanks and water retaining structures, external plastering, bathrooms and balconies, sumps and drains.

Method of Application

Add cement and aggregates to concrete mixer as per the mix design, mix in dry state for 1 – 2 minutes • Start addition of 75 – 80% mixing water and mix for 2-3 minutes • ENTITY INTEGRAL WP is added as per the recommended dosage into the remaining mixing/gauzing water, then add to concrete mixer and mix for another 2 minute • Discharge the concrete / plaster for application • Cure the applied mortar or concrete as per good construction practices

Dosage

100 ml per 50 kg bag of cement

Precautions & Limitations

Do not add ENTITY INTEGRAL WP directly to dry cement and aggregate mix. Maintain water-cement ratio as low as possible. Do not increase the dosage of ENTITY INTEGRAL WP other than recommended.

Shelf Life and Storage

Best before 12 months unopened conditions. Store in a cool and dry place.

Health & Safety Precautions

In case of contact with skin, wash with water. Keep out of reach of children. If swallowed, call for medical assistance.

Pack Size

100 ml, 1 L, 5 L, 10 L, 20 L

Disclaimer :

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ENTITY WATERPROOFING PVT. LTD.

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Entity for Innovations..

ENTITY LATEX SUPER



ENTITY WATERPROOFING PVT. LTD.

Description:

ENTITY LATEX SUPER is based on modified Styrene-Butadiene Rubber Latex used for high performance applications in waterproofing and repairs. It is used for repairs of spalled concrete such as – floors, columns, beams, chhajjas, slabs, anti-corrosive coating of rebars, waterproofing of toilets and bathrooms and terraces. It bonds strongly to old and new concrete and to plaster.

Used for :- Waterproofing • Anti-corrosive agent for rebars • Bonding agent for uses in repair and plastering • Polymer mortars for repairs etc. • Treatment for leaching and salt petre action • Multipurpose mortar admixture for injection grouts.

Features:

- Multipurpose – It is multipurpose and economical product, easy to use
- Cracking – It prevents cracking by improving flexural strength
- Hardness – Improves the hardness and prevents dust generation
- Shrinkage – Reduces drying and aging shrinkage cracks
- Bonding – Bonds strongly to concrete, masonry, stone work, plasters, steel, asphalt and most of the building materials.
- Erosion and corrosion – Improves erosion resistance and prevents corrosion
- Abrasion resistance – Improves abrasion resistance of cement mix.
- Waterproofing-Prevents leakage and dampness.

Features & Benefits:

- Improves elasticity, flexibility, tensile strength of cement and reduces cracking
- Makes the mortar waterproof, and reduces susceptibility to acids and gases, salt petre action etc
- Mortar with the chemical shows extremely good bonding bases like concrete, stone, brick etc
- Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrate
- Coverage – Excellent coverage with all types of applications
- Durability-Enhances strength of a repair mortar and provides durability
- Rebound loss- Less material wastage material does not fall back / rebound, when used as bonding agent

Technical Data :- Conforms to : IS 2645 – 2003 • Appearance : Milky White • Nature : Single component, Liquid Water • Solubility : Soluble • Specific Gravity at 30°C : 1.02 \pm 0.02 g / cc • Viscosity on Ford Cup B-4 at 30°C : 100 CPS Max. • Compatibility : Compatible with all types of cement • Chloride Content (%) : Complies with BS – 5075 • pH Value : 8 – 10 • Solid Cement : 44% to 50% • Tensile Strength as per ASTM C – 190 : 2.7 – 5.5 / Mm²

Areas of Application

Bond coat : Plaster of plaster, concrete-to-concrete, plaster to concrete masonry to stone work and for plastering over brick masonry. Bonding coat and mortar for tiles & panels, underlay's for special finishes such as top rendering coat for chemical resistant floors. **Waterproofing coating:** Waterproofing of roof terraces, sunken portions of toilet & bathrooms, chhajjas and lift pits, balconies and stair cases, waterproofing of liquid and effluent tanks, car deck and walk ways etc. **Re-bar coating :** Coating for prevention of corrosion over re-bars. **Crack repair :** Repairs of plaster cracks more than 5 mm and in gaps developed between masonry and RCC members. **Cladding :** Fixing or re-fixing of slip bricks, tiles, stones and marble bedding. **External rendering :** Weatherproof and frost resistant render, high wear and erosion resistant render, as bonding slurry coat for pin hole treatment on concrete surface and as repair mortar for overhead applications.

ENTITY WATERPROOFING PVT. LTD.

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ENTITY LATEX SUPER

Bonding & Waterproofing Solution

Method of Application :

1) Surface Preparation

- Clean the surface with wire brush or scrubber to remove dirt, loose particles, laitance and dust.
- Electric blowers / vacuum cleaners may be used to get a dust free surface.
- Degrease the surface by using suitable solvents
- Repair the concrete spalled portion by saw cutting the extreme edges of the repair location to a depth of at least 10mm to avoid feather-edging and to provide strong substrate
- Clean the concrete surface to remove any contamination where breaking is not possible.
- Roughen the surface by light scrubbing or grit blasting
- Expose corroded rebar in the repairing area fully
- Remove all loose scales and corrosion deposits

2) Application

Waterproof coating : Mixing Ratio for Critical Areas – Entity Latex Super : Water : Cement = 1 : 2 : 4 **Mixing Ratio for Normal Areas –** Entity Latex Super : Water : Cement = 1 : 4 : 6 coverage (70-80 Sq. Ft.) per Kg of Entity Latex Super. Apply the 1st coat with 4 inch paint brush. Apply the 2nd coat with 4 inch paint brush after 1st coat is dried approximately 4 hrs between two coats. Evenly spread coarse sand upon the 2nd coat when the same is in tacky condition in order to create grip. Overlay the 2nd coat with screed/plaster for protection and finish. Admix ENTITY LATEX SUPER for best results. **Salt petre treatment : Mixing Ratio –** Entity Latex Super : Water : Cement 1 : 2 : 4 Brush apply the 1st coat on brick. Apply 2nd coat after 1st coat is dry. When 2nd coat is tacky stage, place plaster. **Waterproof repair plaster : Mixing Ratio –** Cement : Sand (1 : 3) + (Entity Latex Super = 2% per bag of cement) + Clean Water. Keep water-cement ratio is Plaster as low as 0.4 but not more than 0.45. **Waterproof cement concrete : Mixing Ratio –** Cement : Sand : Stone (1 : 2 : 4) + (Entity Latex Super = 4% per bag of cement) + Clean Water. Keep water-cement ratio between 0.40 to 0.45.

Precautions & Limitations

Do not dilute ENTITY LATEX SUPER with water or by any other means other than during application as per mixing ratio provided in the Product Data Sheet • Close the container lid properly after use • Before applying over the natural stones like sand stone, slate etc. sampling should be done on a small area to check its suitability

Shelf Life & Storage : Best before 12 months in unopened condition.

Pack Size : 250g, 500g, 1Kg, 5Kg, 10Kg, 20Kg.

Health & Safety Precautions : In case of contact with skin, wash with water. Keep out of reach of children.

Disclaimer :

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Entity for Innovations..

ENTITY POLYPLUS



Entity for Innovations ..

ENTITY WATERPROOFING PVT. LTD.

ENTITY POLY PLUS Acrylic Bonding and Coating Solution

Description

ENTITY POLY PLUS is composed of acrylic co-polymer emulsions & additives. It is used for high quality waterproofing treatment, as bonding agent for new to old substrates and also as cement mortar modifier. Improves tensile & flexural strength of concrete and increases the durability of the structure. When mixed with cement, it forms a consistent breathable matrix and provides excellent waterproof coating.

Areas of Application

Concrete structures like sunken portion, toilets, balcony, basement, walls, chajjahs, roof, terrace, concrete repairs and water reservoirs etc.

Features & Benefits

- A tough, hard wearing, breathable waterproof system for residential, industrial, housing and commercial buildings
- Non - corrosive to steel Can be applied in uniform thickness to horizontal and vertical surfaces. Excellent bond to most building materials Reduces or prevents salt penetration into concrete High ultra violet resistance
- Highly durable Economical system Non-flammable and does not give off toxic gases, when exposed to fire Micro porous & allows breathing Resists fungus & micro organism growth

Technical Data

• Conforms to : IS 9103 - 1999; ASTM D412; ASTM C 494/C • Appearance : Milky White • Nature : Single component, Liquid • Water Solubility : Soluble • Specific Gravity at 30°C : 1.03 +/- 0.02 g / cc • Compatibility : Compatible with all types of cement • pH Value at 30 °C : 9 (+/-1) • Compressive strength (Kg/cm²) as per IS 4031 - 1988 : 80 (+/-20) • Impact Resistance (Inch/LB) : 15 (+/-5) • Abrasion Resistance as per ASTM - D-4213-83 : < 1 = 2% • Resistance to chemicals as per ASTM C 672-725 : Pass • Water Permeability as per ASTM-E-96 & IS : 2465: Satisfactory • Water Permeability as per ASTM-C-241-51 : Pass.

Coverage

For waterproofing treatment depending on type of application, two coats are essential. Consumption is 0.8 kg / m² for two coats for general waterproofing treatment. For slurry waterproofing coating system 4% is required to be added to fifty kg bag of cement slurry. Do not add extra amount as the same may cause the coating system to be brittle and unstable. Normally two coats should be applied. Only in extreme cases three coats may be required.

Method of Application

1) Surface Preparation

Clean the surface and remove any dust, unsound or contaminated material, loose plaster, oil, paint, grease, corrosion deposits or algae etc. Where breaking out is not required, roughen the surface and remove any laitance by light scrubbing or grit blasting (in case of metal surface) Expose fully the corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to bright condition particularly for the hidden portions of the exposed steel bars.

2) Application

For treatment of reinforcement bars:-

Upon the prepared surface, apply one coat of ENTITY NO RUST™ POLYMER followed by two coats of ENTITY POLY PLUS mixed cement slurry (1:2 by volume) to all exposed steel reinforcement and allow it to dry. A second coat application is also recommended.

For waterproofing coating :-

After completion of surface preparation and SSD conditioning of substrate, apply two coats of ENTITY POLY PLUS at ratio of double the amount cement slurry for general waterproofing purpose. For special type of slurry waterproofing treatment system, add 4 % of ENTITY POLY PLUS to fifty kg. bag of cement slurry. The application should be done at right angles to 1" & 2" coat and constant stirring of the coating mix is to be done in order to maintain consistency of the coating system. Apply ENTITY POLY PLUS with brush, mop or rollers on the SSD conditioned substrate and remove any excess material, as excess materials may cause the waterproofing system to develop cracks and be unstable. Protective cover topping plaster / brush top cover finishing of 8 to 12 mm may be done for special cases with cement-sand mortar admixed with ENTITY INTEGRAL WP.

For Renders & Mortars :-

A suitable mix ratio for patching repair mortar or render for mix design is: Ordinary Portland Cement - 50 kg, Washed Sand - 150 kg & ENTITY POLY PLUS 3 - 4 kg. Sufficient water can be added to give the required consistency.

For Bonding Coat :-

Mix ENTITY POLY PLUS with cement where extra adhesion is required. Recommended mix shall be 10 kg of ENTITY POLY PLUS mixed with one bag of Cement.

For Polymer Modification of Repair Plaster :-

Repair Plaster 1 : 3 (Cement : Sand) + 2% of Entity Poly Plus + Water (as per required quantity)

For Polymer Modification of Cement Concrete :-

Cement Concrete 1 : 2 : 4 (Cement : Sand : Stone) + 4% of Entity Poly Plus + Water (as per required quantity)

3) Curing

Cure the treated area using ENTITY POLY PLUS to prevent rapid loss of water. In serve drying conditions additional curing methods may also be necessary. Protect uncured portions from frost and rain.

Pack Size

1 kg, 5 kg, 10 kg, 20 kg.

Shelf Life & Storage

Shelf life is 12 month from the date of manufacturing in unopened condition.

Storage

Store in cool & dry place, away from direct sunlight and at temperature not more than 30 °C.

Health & Safety Precautions

ENTITY POLY PLUS is non-flammable. In case of contact with skin, rinse with clean water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. Not to be ingested but in case of accidental ingestion, drink plenty of water, induce vomiting and seek medical assistance immediately.

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Entity for Innovations..

ENTITY POLYPLUS 2C



ENTITY WATERPROOFING PVT. LTD.

ENTITY POLYPLUS 2C
Heavy duty Two Component Waterproofing Compound

DESCRIPTION:

ENTITY POLYPLUS 2C is a specially formulated heavy duty two component elastomeric ready to use acrylic co-polymer based waterproofing system consisting of high grade cementitious binding aggregates and other proprietary chemicals. When applied, it offers excellent resistance to both positive and negative pressures and provides excellent waterproof coating.

Features & Benefits:

- Very economical and lesser consumption in comparison to other products
- Excellent adhesion to substrate.
- Compatible for both porous and non-porous surface
- Provides excellent breathable barrier coating system which is waterproof.
- High consistency in performance as the components are pre-batched.
- Allows water vapour from the interiors of the substrate to come out due to breathability.
- Non-toxic in nature.
- Chloride free and does not affect RCC.
- Single coat (under ideal condition) gives a dry film thickness of 1mm which provides excellent anti-carbonation property.

Areas of Application:

- For waterproofing of foundation structure, Sub-base Retaining Wall / Structures, Basement Floor & Walls, Sewage/ Effluent Tanks etc.
- For waterproofing of Underground Reservoir, Over Head Reservoir, Sunken Pit, Lift Pit, Swimming Pool, Roof, Chajja, Terrace, Balcony, Toilet, Kitchen etc.
- For waterproofing on cement-based plasters, even if cracked.
- For waterproofing on plaster-board. For Concrete Repairs & Retrofitting jobs.

Technical Data :

Nature of Product : 2 pack system consisting of Part A (liquid polymer and additives) & Part B (Powder consisting of cement with selected aggregates and additives) ● Pot Life at 30°C : Approx. 40 minutes ● Bonding Capacity : Approx. 2.0 N/mm² ● Tensile strength : 1.7 N/mm² ● Crack extension : Approx 10% ● Crack bridging : Approx 1mm. ● Density of fresh slurry : 2 kg/l at 30°C

Method of Application:

MIXING:-

_ Mix Part B (Powder) gradually in Part A (Liquid) using a mechanical stirrer. Mixing should be done for about three minutes till it is homogenous and free from any lumps.

CAUTION : Small quantity of water may be added only if required (as per weather condition) to make the freshly mixed compound of ENTITY POLYPLUS 2C brushable, but strictly not otherwise; as addition of extra water, cement or other components, would compromise the performance of ENTITY POLYPLUS 2C

APPLICATION:-

Apply using stiff bristle brush or roller upon properly prepared surface which should be SSD conditioned. The layers following the first layer must be applied in a crisscross manner as soon as ENTITY POLYPLUS 2C is sufficiently hardened (approximately 1-2 hours at 30° C). Fibreglass reinforcement mesh may be embedded for better results on first coat immediately while the coat is wet. The second coat can be applied after the previous coating has dried. Application of ENTITY POLYPLUS 2C must be followed by a plaster or screed application especially when it is exposed to open traffic on roofs.

Coverage / Dosage :

1. For normal applications: 0.75 - 1.25 kg/m² / coat.
2. For critical applications : 1.50 kg to 1.75 kg /m² / coat.
3. Total application thickness (without fibre mesh reinforcement) should not exceed 2mm. as higher thickness tends to provoke cracks in the system

Pack Size:

5 Kg (Part A 1 Kg Liquid) & Part B 4 Kg Powder
20 Kg (Part A 5 kg Liquid & Part B 15 Kg Powder)

Shelf Life & Storage:

Twelve months in unopened condition if stored in cool and dry place.

Health & Safety Precaution:

Although **ENTITY POLYPLUS 2C** is non-toxic in nature it is advisable to use gloves while handling same. Do not ingest and if in contact with skin and eyes, wash with water. Keep out of reach of children.

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Entity for Innovations..

ENTITY PS SEALANT



ENTITY WATERPROOFING PVT. LTD.

ENTITY PS SEALANT

Two component Polysulphide Sealant

Description :

ENTITY PS SEALANT is a two component Polysulphide sealant consisting of 'Base' and 'Accelerator'. When the two components are mixed together, chemical reaction takes place which cures into a firm, flexible rubber like seal with excellent adhesion to concrete, masonry, wood, glass, acrylic and plastics. It is capable of withstanding repeated extension, compression and cyclic movements without loss of adhesion and resists deterioration by weathering, water, salt, oils & fuels.

Features & Benefits:

- Non-toxic .
- Cures at ambient temperatures into a tough, elastic and flexible rubber like material.
- Bonds strongly to most of the building materials with the use of recommended primers.
- Durable .
- Resistant to water, salt water, diluted acids etc.
- Performs well in a temperature ranging from 15°C to 75°C.
- Flexible and recovers to original width after expansion and contraction keeping its property intact.

Areas of Application:

- For sealing of expansion, contraction and construction joints of and infrastructure or building
- For sealing of dynamic structural cracks
- For glazing joints of window, door frame and curtain walls.
- For sealing of Joints and 'J' bolts of corrugated sheet roofing etc.

Technical Data:

- Nature : Two Component
- Initial setting time (at 30° C) is 24 hours
- Colour : Base compound is off-white & Accelerator is dark brown
- Colour of Mixed Compound : Grey
- Sag Resistance : No Sagging

Method of Application:

SURFACE PREPARATION: Surface preparation is the most important step before application of sealant in order to get best results and to avoid failure. The Joint surface must be dry, free from dust, coatings etc.

BACK UP MATERIALS: Insert compressible polyethylene, polyurethane, neoprene, polyethylene rod etc. as backup material to control depth of sealant in the joint and to provide support for tooling of the sealant. **PRIMING:** Select a primer suitable to the substrate and apply two coats by brush on the sides of the joints surface at an interval of 30 minutes.

BOND BREAKER Fix bond breaker tape such as self adhesive polyethylene tape on back-up material to avoid adhesion of sealant to the third surface.

MASKING TAPE Apply masking tape such as self-adhesive polyethylene, cellophane or cloth tape on both edges of the joint.

MIXING: The base and accelerator compounds supplied are packed in pre-weighed quantity as per the mixing ratio (Mixing Ratio e.g. Base : Accelerator = 92 : 2 parts by weight) After the

application of primer, mix the material of individual container. Transfer entire quantity of accelerator to the base compound container and mix it thoroughly to a uniform, homogenous mix. Mixing can be done manually or by using stirrer attached to a low speed electric mixer.

APPLICATION Apply the mixed compound by means of a spatula or by filling into a plastic cartridge which is then placed into the hand held caulking gun into the joint.

TOOLING & FINISHING It is desirable that a smooth surface is obtained. Tool the sealant by pressing the puffy knife or flat tool against the sealant surface, moving along the length of the joint. Tooling breaks air bubbles and exposes any air pockets present. Tooling compresses the sealant, thus promoting adhesion to the joint sides. After tooling the masking tape should be removed immediately. Soap solution can be used to smoothen the sealant surface.

Coverage:

Consumption of ENTITY PS SEALANT can be easily estimated by using the formula e.g. $L = 645 / (W \times D)$, where L = Length of the joint, W = Width of the joint and D = Depth of the joint.

Cleaning:

Tools and equipment can be easily cleaned with solvent such as xylene, toluene, methyl, ethyl etc.

Pack Size: 4 Kg

Shelf Life & Storage:

Shelf life is of one year in unopened containers. Store the material at cool and dry place (at 25°C temp.)

Health & Safety Precautions:

As some are sensitive to resins, hardeners, solvent and its vapours so it is advisable to use hand gloves & goggles. Keep out of reach of children. Do not ingest.

Caution:

- Avoid application upon damp or moist substrate.
- Use suitable primer before using ENTITY PS SEALANT

Disclaimer: The information provided in this Product Literature is indicative and based on testing under expert supervision and under controlled conditions. However as we have no control over the way the products are used and the nature of surface upon which these products are used, Company and its management shall not take responsibility and / or take liability for difference in coverage, application, mishandling, improper storage of the products, including injury, damage, loss etc. and shall not be liable for costs that may be incurred directly or indirectly by or that are linked to application, handling, storage and disposal of the product.

ENTITY WATERPROOFING PVT. LTD.

(Govt. Registered SSI Manufacturing Unit)
EM No. : 19-017-11-00289 E (Part-I), EM No. 19-017-11-01374 E (Part-II)
8th Floor, RDB Boulevard, Plot K-1, Block EP & GP,
Sector V, Salt Lake, Kolkata - 700 091, India
Phone : +91 (33) 66374470 Fax : +91 (33) 66374999
Email : entitywaterproofing@gmail.com
Website : www.entitywaterproofing.com



Entity for Innovations..

ENTITY CP GROUT



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ENTITY WATERPROOFING PVT. LTD.

ENTITY CP GROUT

Non-shrink Cementitious Grouting Compound

Description:

ENTITY CP GROUT is specially formulated grouting compound which has excellent shrinkage resistance, corrosion resistance as well as free flowing properties suitable for cementitious pressure grouting, machine foundation grouting etc. with reduced water absorption during curing period thereby increasing the strength. Reduction in water demand provides high strengths and long term durable grout conforming to BS 8110 1985 as stressing grout admixture.

Features & Benefits :

ENTITY CP GROUT helps in rendering workable and good flowable cementitious grout. It imparts non-shrink property. It reduces segregation. Higher strengths are achieved at early stage. Helps to reduce permeability. Increases durability. It is corrosion resistant as it is free from chloride and iron.

Areas of Application:

For cementitious grouting, for filling cracks, honey combs etc. For duct grouting, non-shrinks filling etc. For joining structural elements by injection and pressure grouting. For gravity grouting.

Technical Data :

Nature: Single Component Powder. Colour: Brownish
Expansion: Controlled positive expansion 1% to 4% Setting Time: It will not affect the normal set of cement grouts
Compressive strength: It gives higher strengths as it allows water reduction. Chloride content: Nil

Method of Application:

All loose particles, laitance, grease and oil should be removed from the substrate. Care should be taken to ensure cleanliness of the substrates and they should be moistened enough. The mixed grout or concrete with **ENTITY CP GROUT** should be used within about 20-30 minutes. However care should be given so as to use the mixed grout as early as possible maintaining a continuous flow. Otherwise it may lead to placing and pumping problems.

MIXING : It is advisable to pre-mix the required quantity of 250 gm. of **ENTITY CP GROUT** with the dry cement or concrete mixes in a mechanical mixer. Add water in such a manner to ensure the water cement ratio as low as possible to get desired quality grouts. Remove any cement lumps present in the mix.

Coverage / Dosage :

Use 250g of **ENTITY CP GROUT** per 50 Kg bag of cement as per direction given in this Product Literature

Pack Size:

250g , 1 Kg, 5 Kg

Shelf Life & Storage:

Twelve months in unopened condition if stored in cool and dry place.

Health & Safety Precaution:

Although **ENTITY CP GROUT** is non-toxic in nature it is advisable to use gloves while handling same. Do not ingest and if in contact with skin and eyes, wash with water. Keep out of reach of children.

Disclaimer :

The information provided in this Product Literature is indicative and based on testing under expert supervision and under controlled conditions. However as we have no control over the way the products are used and the nature of surface upon which these products are used, Company and its management shall not take responsibility and / or take liability for difference in coverage, application, mishandling, improper storage of the products, including injury, damage, loss etc. and shall not be liable for cost's that may be incurred directly or indirectly by or that are linked to application, handling, storage and disposal of the product.

ENTITY WATERPROOFING PVT. LTD.

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Packaging Photographs





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NO RUST™

Surface Preparation - Blasted Surface v/s Rusted Surface

Blast Cleaning Standards – SIS 05 59 00

ISO 8501-1 Sa1

Light Blast Cleaning

ISO 8501-1 Sa2

Thorough Blast Cleaning

Very Thorough Blast Cleaning
ISO 8501-1 Sa2½

Blast Cleaning to Visually Clean Steel
ISO 8501-1 Sa3





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Some Areas of Application

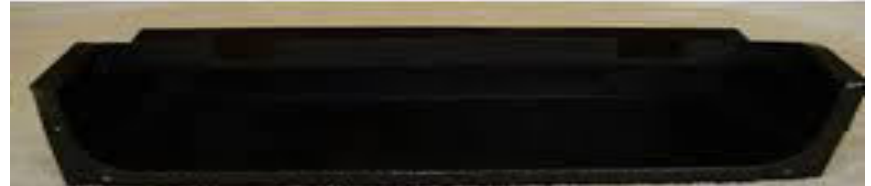




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Before & After Applications



Before



After

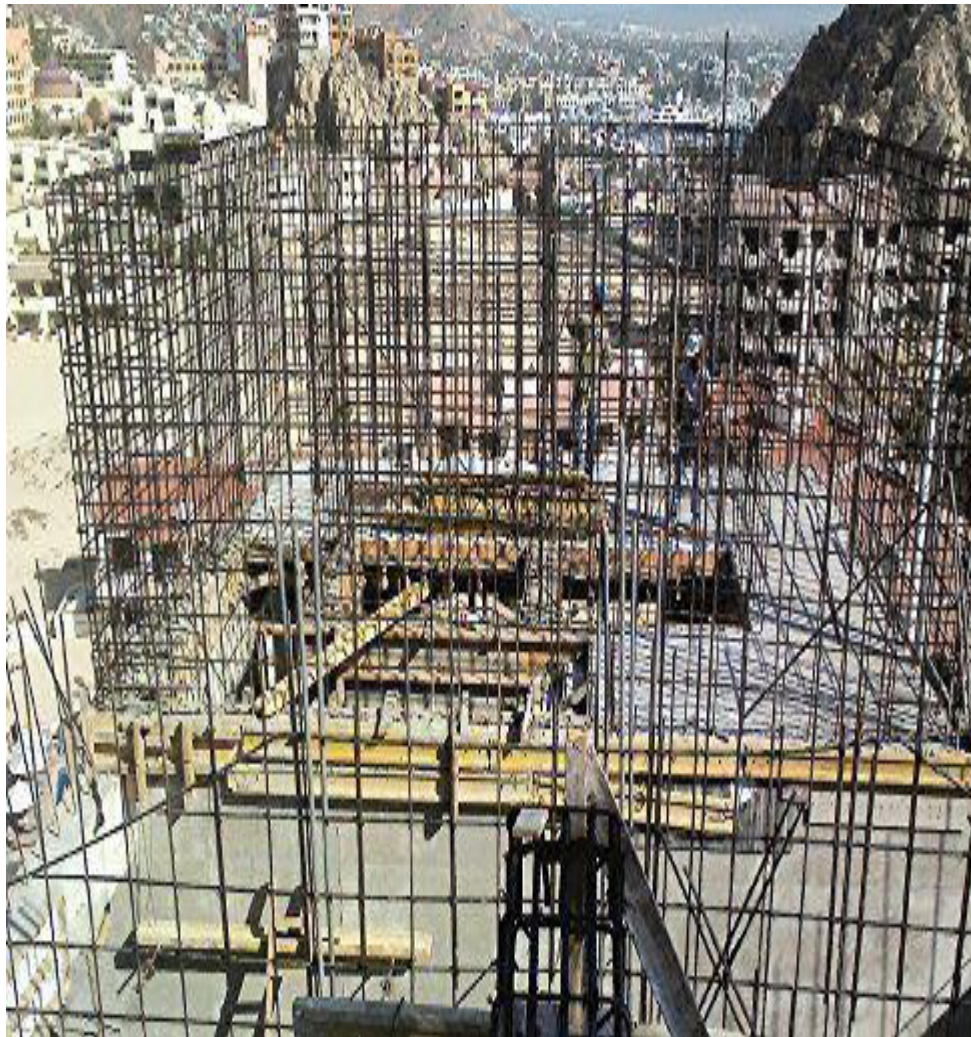




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After Application





ENTITY

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After Finishing with Top Coats



CERTIFIED BY WOLRD FAMOUS STRUCTURAL ENGINEER



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AN ISO 9001 - 2008 CERTIFIED COMPANY



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CEO, A. K. DUTTA & ASSOCIATES, MACI (USA), M.Phil (Env. Sc.).

MEMBER OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (USA), FOUNDER MEMBER OF
ARCHITECTURAL ENGINEERING INSTITUTE (USA), **CHARTERED ENGINEER, APPROVED VALUER**

OFFICE : IA : 3, BACK PORTION SECTOR - III, SALT LAKE, KOLKATA - 700 097
RESIDENCE : HA-333, FLAT NO. - 1, SECTOR - III, SALT LAKE, KOLKATA - 700 097

CERTIFICATE OF PERFORMANCE

TO WHOM IT MAY CONCERN

This is to certify that NO RUST™ manufactured by Entity Waterproofing Pvt Ltd had been
used at our sites.

The performance of NO RUST™ is very very good and satisfactory.

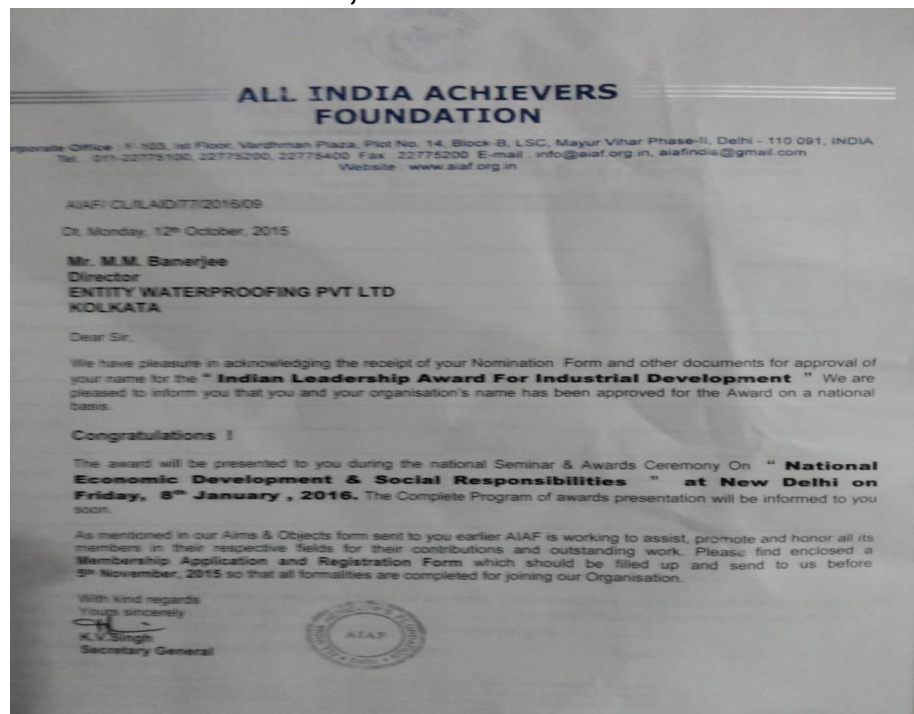
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M.I.Struct.E(I), M.A.S.C.E.(USA),
C.M.S.E.I. (U.S.A.); Chartered Engineer
M/119371/0; Approved Valuer



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Achievement in our humble journey

We have been **Nominated** for "**INDIAN LEADERSHIP AWARD FOR INDUSTRIAL DEVELOPMENT**"; which is a National Level prestigious organisation "All India Achievers Foundation" vide Ref. No. AIAF/PRO/NS/ILAD/07/77/15, Dated: 28.08.2015.





MEDIA PUBLICATION LINK PAGES

(For articles written by MM Banerjee published in various editions of Times Of India, International Media, etc.)

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ENTITY – Products Summary (At a Glance)

RUST IS
GOOD
WHERE
NO
RUST™
IS USED .. !

WHERE
HIGH
QUALITY
MEETS
THE
RIGHT
PRICE ..!

1) Product Name : **ENTITY NO RUST™**

Nature : Liquid 3-in-one solution for corrosion prevention, protection and rust conversion

Scope : TMT Bars, Grills, Gates, Posts, MS Structure, Machinery Parts, etc.

Coverage : 150 Sq. Ft. per Kg. | Pack Size : 1 Kg, 5 Kg, 25 Kg, 35 Kg

APPLICATION: Direct application (single coat) after surface preparation as per recommended specification.

2) Product Name : **ENTITY NO RUST™ - PI**

Nature : Premium Industrial Grade Liquid 3-in-one solution for corrosion prevention, protection and conversion

Scope : TMT Bars, Grills, Gates, Posts, MS Structure, Machinery Parts, etc.

Coverage : 150 Sq. Ft. per Kg. | Pack Size : 1 Kg, 5 Kg, 25 Kg, 35 Kg

APPLICATION: Direct application (single coat) after surface preparation as per recommended specification.

3) Product Name : **ENTITY NO RUST™ - POLYMER**

Nature : Polymer modified liquid 3-in-one solution for corrosion prevention, protection and rust conversion

Scope : TMT Bars, Grills, Gates, Posts, MS Structure, Machinery Parts, etc.

Coverage : 100 Sq. Ft. per Kg. | Pack Size : 1 Kg, 5 Kg, 25 Kg, 35 Kg

APPLICATION: Direct application (single coat) after surface preparation as per recommended specification.

4) Product Name : **ENTITY INTEGRAL WP**

Nature : Integral Liquid Waterproofing | Scope : Cement Admixture | Coverage : As per mixing ratio

MIXING : 100 ml of Entity Integral WPC for 50 Kg bag of Cement

5) Product Name : **ENTITY LATEX SUPER**

Nature : Milky White Liquid SBR Based

Scope : For Slurry Coat, Waterproofing & Cement Mortar

Coverage : As per mixing ratio | Pack Size : 20 Kg

MIXING RATIO:-

For Waterproofing - ENTITY LATEX SUPER : Water : Cement (1:4:6) | For Saltpetre Treatment – ENTITY LATEX SUPER : Water : Cement (1:2:4)

For Bond Coat – ENTITY LATEX SUPER : Water (1:1) | As additive for Plaster - 1Kg or (2 %) per 50 Kg bag of Cement.

For Cement Mortar - Cement : Sand : Water : ENTITY LATEX SUPER (1:2.5:0.16:0.20)

As Concrete Additive - 2 Kg or (4%) of ENTITY LATEX SUPER per 50 Kg bag Cement .

As additive for Render & Mortar - 3Kg to 4 Kg of ENTITY LATEX SUPER for 50 Cement.



Entity for Innovations..

ENTITY – Products Summary At a Glance ... Contd.

6) Product Name : **ENTITY POLY PLUS**

Nature : Milky White Acrylic Polymer based waterproofing compound

Scope : For Waterproof Coating, Bond Coat, Cement Mortar

Coverage : As per mixing ratio | Pack Size : 20 Kg

MIXING RATIO :-

For Normal Coating – ENTITY POLY PLUS : Cement (1 : 2) ; For Slurry Coating – 4% per 50 Kg. bag of Cement .

As Concrete Additive - 2 Kg or (4%) of ENTITY POLYPLUS per 50 Kg bag of Cement .

As additive for Render & Mortar - 3Kg to 4 Kg of ENTITY POLY PLUS for 50 Kg bag of Cement.

As additive for Plaster - 1Kg or (2 %) per 50 Kg bag of Cement.

7) Product Name : **ENTITY POLYPLUS 2C**

Nature : Specially formulated two component elastomeric ready to use waterproofing compound

Scope : For Waterproofing Coating, Bond Coating including Heady Duty Waterproofing

Coverage : For normal applications: 0.75 - 1.25 kg/m²/ coat

For critical applications : 1.50 kg to 1.75 kg /m² / coat. | Pack size : 5 Kg , 20 Kg

MIXING : Mix Part B (Powder) gradually in Part A (Liquid) using a mechanical stirrer.

8) Product Name : **ENTITY CP GROUT**

Nature : Dust (Non-shrink Pressure Grouting Compound)

Scope : For Cementitious Pressure Grouting | Coverage : As per mixing ratio

MIXING : 250g of Entity CP Grout per 50 Kg Bag of Cement

9) Product Name : **ENTITY PS SEALANT**

Nature : Two Component (Sealant + Hardener)

Scope : For sealing of expansion joints, contraction joints, construction joints etc.

MIXING : Part -I : Part -II (92:8) | Coverage : As per gap size

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Invitation for joining Nexus Incubator Programme dated 31.08.17 after qualifying in competition



Dear Mr. Banerjee

Congratulations!

On behalf of the Nexus team, I am happy to extend an invitation to join the initial pre-incubation cohort at Nexus at the American Center.

The competition for our premier cohort was very strong; we received well over 100 applications and after a lengthy review, your team was one of the select few that was chosen.

We will be starting our cohort on Monday, September 4th. The first week you will be enrolled in the University of Texas' Innovation Readiness Series™ online program. The Innovation Readiness Series™ helps you step through an innovation to identify the critical next steps on the path to market. It is online and self-paced, with several quizzes and small assignments to ensure that you master the content.

We will welcome you for the first day of the physical program on Monday, September 11th at 10:00 at the American Center. Please bring a photo id with you.

We have a few limited opportunities for selected companies to have an additional team member go through the incubation process. If you would like to request an additional slot, please let us know immediately by email.

Please confirm by email acceptance of your slot in the Nexus incubator by tomorrow 3:00 pm, 1st of September, 2017 positively.

Again congratulations and we look forward to working with you over the next 10 weeks!

Rajneesh Kumar

Director
Startup Hub @American Center

Public Affairs Section, U.S. Embassy,
The American Center,
[24-K.G. Marg, New Delhi 110001 \(India\)](#)
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Thank You

Thank you so much for going through this presentation....

If you require any further clarification kindly contact
Mr. MM Banerjee at 9831166285