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SPRAY MORTARS

Applications : Cement

Skim Coat & Putty
Tile Adhesive
Manual Renders
Spray Renders
Repair Mortar

Benefits : Cement

Workability
Anti slip / Anti-Sag
Thickening
Open time
Adjustment time
Cost reduction
Bounce back reduction
Application Speed

Applications : Gypsum

Manual Plaster
Finishing plaster
Spray plaster
Joint filler
EIFS
Spot Glue


Benefits : Gypsum

Anti-sag
Thickening
Workability
Working time
Smoothness
Surface hardness
Reduce chalking
Application Speed



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* Benefits are also dependent on quality of ingredients, formulation and optimisation of blend.



Editor's Page : 3 Mistakes of My Life



I was born in the year 1974. For those of you who are working out the mathematics, yes I am 50 years old. As I sit back and look through the 50 sweet years, some decisions are according to me a regret. If taken correctly, life would have been better. Not sure if best, but certainly better than this one. May be judgemental or just mental, my mind keeps thinking of the alternatives.

Those of you who have read the book “Dark Matter” will understand with what I am saying. In this book, the author actually designs a box which can take you to different worlds, in which you exist in a different role, due to a different decision taken. It is a very interesting book and does provoke your thoughts. Imagine the world where you can actually see your alternative lives.

Yes, yes, I am getting to my mistakes, be patient. So, to begin with, I see my first mistake as staying back in India. In 1996, I graduated as an engineer, first class with distinction. That was an era when strong demand diverted attention towards moving to America. The Y2K project needed more hands & work was ample. Everyone who moved had jobs and could sustain. They are there today with fatter bank balances, bigger houses, lesser traffic and live a superior quality of life.

Starting my own venture very late was my second mistake. I should have done it much earlier. To be on your own, to be your own boss & work for your own company is bliss. No job in this world can give you the satisfaction, which comes from doing your own work. Everyday is a Sunday and I will never retire & keep working till the last breath of life. My mistake is that it took me 20 years of corporate salaried life to take this step.

Last week I saw a play directed & acted by Anupam Kher. The name was “Kutch Bhi Ho Sakta Hai”. It talks about the fundamental that anything can happen, we just don't imagine and accept failures of life to stop the struggle. In this play, Mr. Kher opens his entire life to the audience and concludes that bad things happen, but the struggle must go on, because anything can happen tomorrow. Success comes to those who keep trying.

I will not share my third mistake in this article, if you have read it till now & are keen to know, drop me a WhatsApp & I will reveal. It is a great feeling when some one gives you feedback. Many of you have even pointed out my errors & I am really grateful. Success totally depends on those who tell us what is wrong. Unless someone wakes you, you will never realize that you were sleeping.

So it is time to wake up & smell the tea. Keep reading Drycotec Diaries & enlighten yourself.

Dr. Mandar Chitre
Editor & Founder – Drycotec Diaries
Drycotec Drymortar Association

INVITATION FOR ARTICLES : ENGINEERS / STUDENTS / PROFESSIONALS

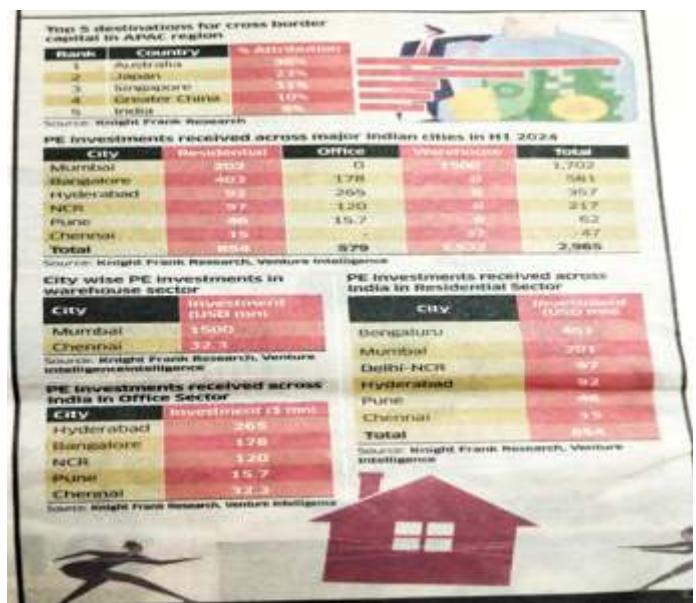
Drycotec Diaries invites articles on the following important issue on these unfinished projects in 44 cities across India & the heavy flow of investments in the Realty Sector.



Why is it happening ?, what could be the triggers ?, is it happening due to imbalance of demand & supply or because of poor demographics or quality or price, why ?, what is your opinion ? Why are the investments rising ?, isn't it strange that we have both sides. Each location would have a different story to express. As industry professionals we should express our concerns because it directly affects all of us. Any stall project does not just mean loss of business but it also leads to no payment from the previously delivered materials. Heavy investments are flowing in the same locations.

In each location, you have a project which is fully sold before completion & some which just don't sell at all. Each city has a growing population, which means the demand for housing will be certainly strong. Think and express your views. I am sure your opinions will help others.

Just look at some other news articles where investments are flowing in India from the world.



Write to us & we will publish your article in our next edition.

Send your article, not more than 450 words to mandar.chitre@batonconsultants.com

DRY MIX MORTAR PLANT

Mortar | Grout | Tile Adhesive | Black Box | Putty | Green Sand



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16 17 18 October 2024
Bombay Exhibition Centre, Mumbai



EMERGING TECHNOLOGIES IN DRYMORTARS



A Conference by



Date : 18th October 2024
Venue : Bombay Exhibition Centre,
Goregaon East, Mumbai
Time : 10.00 to 13.30 Hrs

www.woc-india.com

Conference Highlights

- Meet Experts of the Industry
- Understand their Vision for 2030
- Learn about the latest products & trends.
- R&D Specialist decode the challenges of Adhesives.
- Help you achieve your goals for Sustainability.
- Become part of the Paper which shall be published.

Conference Content

Panel Discussion One : The Business of Adhesives

- Become part of the Paper which shall be published.
- Are we Overdesigning Products
- Controlling Demand & Saving Water
- Innovation in Fillers, finding Substitutes
- Issues & Challenges of the Industry

PANEL DISCUSSION TWO : DRY CONCRETE & OTHER GAME CHANGING PRODUCTS

- Challenges in Manufacturing
- Demand & Supply
- Challenges & Restrictions
- Other Innovative Products

PANEL DISCUSSION ONE : THE BUSINESS OF ADHESIVES

- Industry Outlook 2030
- Challenges & Mindset
- Working towards Net Zero
- Health & Safety

Focus on

- What is the Future of Tile Adhesives ?
- What will be the new products ?
- What are the leaders thinking about 2030 ?

VIP Panelist



Rajesh Joshi
M.D. (STP Berger)



Nilotpol Kar
MD, Sika India



Ragesh Rawat
President (Birla White)



Narendra Mishra
President (JK Cement)



Neelesh Desai
MD, BHS Sonthofen



Uday Sanghavi
M.D. (VT Corp)



Nandan Pradhan
Director (Mcon Rasayan)



Atul Kulkarni
Director (RMX)



Rajeev Gupta
Business Head (ECMAS)



Debashish Vanikar
Chief Executive Officer
(Adhesives & Const Chemicals)
Kansai Nerolac Paints Ltd.

VIP Panellist : Technical Experts



Dr. Arjunan P.
R&D Head
MYK Laticrete



Dr. Rachana Pandey
R&D Head
Mcon R



Dr. Jitendra Kar
Technology Leader
Pidilite



Dr. Jagabandhu Kole
R&D Head
JSW Cement



Dr. Parag Solanki
R&D Head
Sika India



Anupam Shil
Head Technical
STP Berger



Chandan Adhikary
Tech Head
Procon RMC



Pawan Dhagate
Regional
Technical Head
Hella Inframarkets



Dr. B.L. Maheshwari
M.D.
Aquaproof Ind



Dr. S.B. Hegde
Global Cement Consultant
& Professor JCET Hubali
& Pennsylvania State Univ,
USA.



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Why : Product Development

How : Test your Sand

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QUARRY FORWARD 2024



MESSE
MÜNCHEN



Quarry Forward 2024 : Sponsorship Document



bauma CONEXPO INDIA

11 Dec. - 14 Dec. 2024

India Expo Centre, Greater Noida / Delhi NCR

Introduction:

QuarryForward was one of our highly appreciated event of Bauma Conexpo 2022. Considering the feedback from our customers, BC India and Baton Consultants proudly presents the second session of QuarryForward 2024, which will enable you to extend your brand & be part of giving elevated recognition to your customers. The Details of our 2024 Seminar are below.

Quarry Forward 2024 : Conference Agenda

Date : 13th December 2024

Venue : 2nd Flr, Conference Room, Bauma Conexpo Exhibition, India Expo Mart, Greater Noida.

Time	Conference Agenda	By
13.30 - 13.45	Lamp Lighting & Welcome Note	Chief Guest
13.45 - 14.30	Debate 1 : Drilling & Blasting - Improving Productivity <ul style="list-style-type: none">• Incorrect Blasting - Reasons• DTH & TH - Which works where• Cartridge or ANFO, which is better	Debate by Panellist
14.30 - 14.40	Sponsor Presentation One	Sponsor Company
14.40 - 15.25	Debate 2 : Crushing & Screening - Increasing Efficiency <ul style="list-style-type: none">• Importance of Feed Gradation Curve• Ensuring that the crushers are not overloaded• Flow Sheet Mistakes, check before buying	Debate by Panellist
15.25 - 15.35	Sponsor Presentation Two	Sponsor Company
15.35 - 16.20	Debate 3 : Sand Classification - Saving Resources <ul style="list-style-type: none">• The Pros & Cons of Washing• What are the limitations of Screening• Is Air Classification the Solution	Debate by Panellist
16.20- 16.30	Tea Break	All
16.30 - 16.40	Sponsor Presentation Three	Sponsor Company
16.40 - 17.25	Debate 4 : Material Handling Tech - Saving Energy <ul style="list-style-type: none">• Electric Equipment - feasible or not• Modern Drum Pulleys Pros & Cons• Solar & Wind - Have you done it	Debate by Panellist
17.25 - 17.35	Sponsor Presentation Four	Sponsor Company
17.35 - 18.00	Certificate Handover to Prestigious Quarry Owners & Expert Panellists	All

List of Panellist in Quarry Forward



N.K. Palai
Head - Quarry & CrusherLarsen &
Toubro Limited,
Mumbai, MH



Anand Lal
General Manager
Thakur Infra Projects Pvt Ltd,
Panvel, MH



Manoj Dokania
Director
Balajee Infratech &
Const Pvt Ltd. Mumbai



Sanjay Papriwal
Chairman
Papriwal Group Kishangarh,
RJ



Nilesh Chourasiya
Director
Earth Black Stone Pvt Ltd.
Amravati, MH



Tanmoy Bhowmik
Director
G Group Stone Crusher
Agartala, TR



Dharmendra Sawant
Director
Navalai Group
Ratangiri, MH



Neminath Akkole
Founder & CEO
Gray Material
Hubli, KA



Arun Patil
Chairman
Shree Mahalaxmi Group
Kalyan, MH



V.K. Mohan
CEO & Director
Robo Silicone
Hyderabad, TN



Ramesh Patel
Director
Amardeep Aggregates
Chikhali, GJ



Abhay Deshpande
Director
Rock Tech Engineers
Kolhapur, MH



Ishan Hanamshet
Director
Popular Concrete
Belgaum, KA



Ananth KR
CEO
Ultra RMC
Coimbatore, TN



Dheeraj Kumar Arora
Founder Director
Saraj Drilling Solutions
New Delhi



Shahaji Pawar
Director
Yamai Constructions
Solapur, MH



Vineet Bajaj
VP - Tech Services
NS Arcus
New Delhi



Gajanan Navale
Owner
Gajanan Stone Crusher
Nashik, MH



Raju Patel
Director
Jamuna Infra Proj Pvt Ltd.
Nashik, MH



Narayan Naik
Managing Director
Nanu Industries
Margao GA



Uttampal Singh
Director
Purni Infra India Pvt Ltd.
Khandwa, MP



Manoj Angre
Director
Shree Constructions
Panvel, MH



R.S. Boyal
Head Of Plant & Equip
Rajpath Infracon Pvt Ltd.
Pune, MH



Dr. Umesh Kumar Purbey
Safety Expert
Hawsvale UK
New Delhi

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Dr. B. L. Maheshwari
Founder & Managing Director



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Dr. Jai Shankar Kumar, Head (Sales & Marketing) Shyam Steel India has more than two decades of experience and has worked for some of the Top Cement brands of India. He has done his MBA from IIM Calcutta and also completed his PhD. He expresses his views on the news clips.

HT MINT, NEW DELHI 20 AUGUST 2024

Cement cos stare at earnings pain

The July quarter is usually strong for the cement sector. Demand tends to get a boost from home building and infrastructure projects, but this time around, hopes were low. Cement sales were flat by volume and for revenue despite the government's construction activities boost. The ongoing fight for market share among top cement makers also kept prices under pressure. Consequently, the July quarter Q2 FY25 was a workout for cement firms, with subdued demand and muted volume growth.

On an aggregate basis, volumes of all major cement firms rose a mere 4% year-on-year to 1.56 billion tonnes in Q2 FY25, up from 1.5 billion tonnes in Q2 FY24. The volume growth was muted, with a 1.3% increase in Q2 FY25 over Q2 FY24. The volume growth was muted, with a 1.3% increase in Q2 FY25 over Q2 FY24. The volume growth was muted, with a 1.3% increase in Q2 FY25 over Q2 FY24.

In correction mode: Cement prices across India remain on a weak footing, hurt by subdued demand and elevated competition. The impact may be accentuated in regions that have exposure to east and south India, where prices have fallen more than in other regions. UltraTech Cement Ltd, which has a strong presence in the east and south India, said in its Q2 FY25 earnings call that revenues were likely to slip in Q2.

With a spate of supply-side and capacity additions in large cement makers, the pace of consolidation has accelerated. In the most recent available data, UltraTech and Shyam Steel Cement Ltd, which has a strong presence in the east and south India, said in its Q2 FY25 earnings call that revenues were likely to slip in Q2.

As things stand, the demand-supply mismatch could cause the sector's margins to fall further, especially in Q2 FY25. The impact may be accentuated in regions that have exposure to east and south India, where prices have fallen more than in other regions. UltraTech Cement Ltd, which has a strong presence in the east and south India, said in its Q2 FY25 earnings call that revenues were likely to slip in Q2.

ROUGH ROAD: All India cement prices fell 15 cents per tonne in Q2 FY25, a five-year low. The impact may be accentuated in regions that have exposure to east and south India, where prices have fallen more than in other regions. UltraTech Cement Ltd, which has a strong presence in the east and south India, said in its Q2 FY25 earnings call that revenues were likely to slip in Q2.

DEMAND: Supply-side and capacity additions in large cement makers, the pace of consolidation has accelerated. In the most recent available data, UltraTech and Shyam Steel Cement Ltd, which has a strong presence in the east and south India, said in its Q2 FY25 earnings call that revenues were likely to slip in Q2.

In Q2 FY-25, cement cos are facing significant margin pressure due to a combination of factors:

- 1. Demand-Supply Mismatch :** There is an oversupply in the market relative to the current demand, leading to an imbalance that puts downward pressure on prices.
- 2. Low Prices :** Cement prices have reached a five-year low across various regions, further squeezing the margins of cement producers. This is likely a result of the oversupply situation, coupled with subdued demand in some sectors.

These challenges are compounded by rising input costs, such as those for energy and raw materials, which further erode profitability. Cement companies may have to focus on cost-cutting measures or hope for a demand recovery to improve their margins in the coming quarters.

The competition between Adani Group and UltraTech Cement in the cement industry is intensifying. Despite the strong rivalry, UltraTech appears to have an advantage at this point. UltraTech Cement, part of the Aditya Birla Group, is one of the largest cement producers in India and has a well-established market presence and extensive distribution network.

On the other hand, Adani Group, a relatively new entrant in the cement sector, has been rapidly expanding its footprint through acquisitions and new projects. The company's aggressive growth strategy aims to capture a significant market share.

UltraTech's advantage could be attributed to its established brand, extensive market reach, and operational efficiencies. However, Adani's aggressive expansion and investment capabilities present a formidable challenge, making this a closely watched competition in the industry.

The fight on cement turf goes on

THE BIG PICTURE

A COMPETITIVE MARKET

Capacity share in south India (in %)

Company	Q2 FY24	Q2 FY25	Q2 FY26
UltraTech Cement	18	18	18
Shyam Steel Cement	10	10	10
India Cement	12	12	12
Adani Cement	10	10	10
Other Cement	10	10	10

WHILE BOTH THE ADANI GROUP AND THE ADANI GROUP ARE GROWING ORGANICALLY, THEY'RE ALSO SCOUTING FOR AND SHAPING UP ASSETS

The group is growing. The Adani Group's total cement capacity today is 1.5 billion tonnes, up from 1.3 billion tonnes in Q2 FY24. The group is growing. The Adani Group's total cement capacity today is 1.5 billion tonnes, up from 1.3 billion tonnes in Q2 FY24. The group is growing. The Adani Group's total cement capacity today is 1.5 billion tonnes, up from 1.3 billion tonnes in Q2 FY24.

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My Interview Diaries :
SOURAV SEN, MANAGING DIRECTOR,
EIRICH INDIA



Drycotec Diaries interviews **Sourav Sen, Managing Director of Eirich India Pvt Ltd.** Drycotec Diaries speaks to Mr. Sen and would like to publish the highlights for our readers.

Drycotec Diaries : Can you please tell us about your company and the group?

Mr. Sen : The Eirich Group, with Maschinenfabrik Gustav Eirich as its strategic center in Hardheim, Germany has been a global leader in mixing and processing technology for almost 160 years. As a leading global manufacturer of machinery and equipment for the processing of raw materials, Eirich has been pioneering advanced technologies for mixing, granulating, dispersing, kneading, reacting, tempering and fine grinding since 1863.

Eirich's core competences are processes for the preparation of bulk materials, slurries and sludges across several industry segments e.g., Steel & Metallurgy, Refractory, Foundry, Ceramics, Carbon, Agrochemicals, Building materials, Lead Acid and Li-ion Battery. Eirich offers Intensive Mixers from Laboratory size of 1 litre to production units up to 10000 litres capacity.

Eirich India, the Indian subsidiary of the Eirich Group, has been in operations for the last 25 years and is a supplier of machines, plants and services for mixing technology, granulating/ pelletizing, drying and fine grinding.

Eirich has full-fledged operation in India from Sales and Service to Engineering to Manufacturing to Project management. Local presence with global brand has helped Eirich take the leading positions in the country.

Drycotec Diaries : After the launch of Chakan Factory, what are the new achievements of the company?

Mr. Sen : We moved into the state-of-the-art facility in Chakan in Pune on 5th July 2023 and in about two months we became fully operational at the new site. on 15th Feb 2024, Eirich India formally inaugurated Chakan plant on its 25th anniversary of its presence in India. A celebration that will be remembered for very long time by customers, employees and the families as Eirich India. The occasion was graced by our esteemed customers, Eirich board members, shareholders & employees past and present.

Eirich continues to underline its strong commitment to be part of the development of Indian Industry. We look forward to further develop and supply the Eirich High Intensive Mixing solutions for multiple applications for the upcoming projects all over the world through Eirich's Global network.

Drycotec Diaries : Tell us about the changes in Chakan over the Mumbai facility?

Mr. Sen : Chakan is certainly a large facility and we will make not just what we did in Mumbai but a greater number of mixing systems and plants including new mixer models to serve our customers better and faster. We expect our delivery time to improve and our customers will now get some of those mixing systems and plants which were earlier imported from Eirich Germany. Further, an expanded and dedicated Test centre facility at Chakan is capable to offer a higher number of trials / tests for wide range of Industrial applications with customers coming from all over India.

Drycotec Diaries : How is your preparation for people & their skills ?

Mr. Sen : I'm a strong believer of keeping things simple and "less manage is more manage" approach. We at Eirich India believe in empowerment and delegation which is very important during scaling up phase. Managers do often struggle with Delegation – what to delegate and what not? One piece of advice that I read many years ago, may be used as a guideline in most of the situations – delegate What You Should, not What You Can. It is very important because managers do things that they like and fail because they eventually become less productive.

At Eirich India, we are building the culture of performance around Growth and Productivity which will help the organisation deal with the bigger capacity at the newly built state of the art production facility at Chakan.

Drycotec Diaries : What message would you offer to the manufacturers of Drymortars ?

Mr. Sen : Select the right mixer. When I say the right mixer, it should match your quality demands and also the mixing time. Our intense mixers deliver more production than the standard plough shear mixers available in the market. To elaborate, the daily production of our 750 Litre mixer equals to 1200 litre to 1600 Liter plough shear mixer. Litre mixer equals a 2000 litre plough share mixer.

Please contact our sales team to know more.

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E-mail: **harish.bhat@eirich.in**

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VT CORP Electronic Screw Packer 2.1



Ultrasonic Sealer



VSP 2.1 Ultra

Looking to pack your hygroscopic materials in laminated valve bags without perforation?

VT CORP's Electronic Screw Packer 2.1 with Ultrasonic Sealer is the ideal solution!

This airless packer ensures spillage-free packing by eliminating fluidization of the material, allowing hygroscopic materials to be packed in laminated bags. The ultrasonic sealer provides airtight sealing. (available with Auto Bag placer)

VIP 2.1- Open mouth bag



VIP 2.1- Valve Type bag



- With its user-friendly interface, the **Vertical Impeller Packer** is easy to operate and is available in two variants: Open Mouth Bag and Valve Type Bag.
- **Capacity of machine:-** 20kg - 50 kg
- **Output of Machine:-** 300 bags/Hour
- Available with Auto Bag placer and Ultrasonic Sealing for Valve type Bag.

PMT Screw Packer- Single & Dual



- The VTC-PMT is an electronic screw packer for powdery bulk materials. The 3-speed controller provides high filling accuracy. It is available in Single and Dual screw feeder.
- **Capacity of machine:-** 05 kg to 50 kg (we have different range of machines available)
- **Output of Machine:-** 120-180 bags/Hour

VFFS



Stand alone Auger Packer



- **VTC-VFFS** is a Vertical Form Fill Seal packing machine that offers high speed, accuracy, and efficiency for flexible packaging of a wide variety of powder and granular material.
- **Capacity of machine:-** 01 kg to 10 kg
- **Output of Machine:-** up to 50 pouches/Min
- **Stand alone Auger packer** also called as semiautomatic Auger packer for open mouth bags.
- **Accuracy:-** $\pm 20-30g$ for 25 kg bag

Vibratory Gravity Flow Packer : VGFP



- **Vibratory Gravity Flow Packer** is designed to pack granular products and high moisture content like wet sand.
- **Capacity of machine:-** 05 kg to 50 kg
- **Output of Machine:-** 500-700 bags/Hour

Jumbo Packer



- **Jumbo packer** is available in various feeders like screw, RAV, gravity, belt etc.
- **Capacity of machine:-** 0.5-02 tons
- **Output of Machine:-** 8 to 10 bags/Hour

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My Interview Diaries :

CHIRAG GUNDIGARA, HAVER BOECKER INDIA



Drycotec Diaries interviews Chirag Gundigara, Sales Head for Haver & Boecker India.

Drycotec Diaries : Tell us about your organisation?

Chirag : At HAVER & BOECKER India, we understand the unique needs and challenges of the Indian market, and we are committed to delivering innovative and efficient solutions tailored to your requirements. With our extensive experience and expertise, we strive to be your trusted partner in optimizing processes and enhancing productivity across various industries. Whether you are seeking reliable silo systems, advanced packaging solutions, or efficient unloading equipment, HAVER & BOECKER India is here to support you every step of the way. Our team is dedicated to providing exceptional service and ensuring the success of your projects.

Drycotec Diaries : Can you please share with us some of your learnings from Indian Market ?

Chirag : I want to share recent two project sales experience with you. I was working with client who are leading building material supplier in India. We have quoted system for their new brownfield project. We were working very in details about system specification, budget evaluation, reference visits etc. I met all key decision makers in hierarchy for our unique solutions for their requirement. Despite of all hard work, we lost the project with very tinny price margin. Yes, it was set back but we accept the rejection and move ahead for next step. In the next month, I was working with one of the leading refractory product manufacturer for automatic system requirement. We have gone through all prerequisites of project requirement. Finally, we were informed about huge price difference (almost higher by 40%) against our competition but we were not drop our price as well hope. We stick on price and finally we won the project.

We learned that, sales is continuous process and not fixed with any predefined parameters. Sometime we win or lose. We must work with customer closely in order to solve the problems not just sale the product.

Drycotec Diaries : What other things are important to you ?

Chirag : I am also a philanthropist, (a person who donates time, money, experience, skills or talent to help create a better world). Philanthropy is regardless of status or net worth. I feel that success brings social responsibility, so I am very much socially engaged. Sustainability, Climate Change, becoming Carbon neutral are a few things, which are always top of my mind. I want to ensure that the next generation and the coming generations get what we got and don't have to compromise of the good things in life. We need to protect our environment & resources for them as well as our survival.



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— Chirag Gundigara



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Sanjay Chitnis, Retired Sr. Vice President (Technical Services), JK Lakshmi cement Ltd. has almost four decades of experience in the field of cement. He is an engineer from the COEP college in Pune, has done his MDI program from Indian Institute of Management, Calcutta, Indian Institute of Management, Lucknow & Indian Institute of Management Ahmedabad. He has also done his MBA from Annamalai University. In this article, he expresses views on the subject of Dampness.

In this article we are going to discuss the problem of DAMPNESS in building which is common but It can be difficult to determine the exact cause. Rising damp can be slow and expensive to fix. It can be categorized as, Rising dampness, Penetrating dampness & Condensation.

Rising Dampness	Penetrating Dampness	Condensation
<ul style="list-style-type: none">• Damaged skirting boards or plaster• Peeling paint and wallpaper, often with wet patches• A white, powder-like substance on the wall, left by soluble salts dissolved in the water• Tide marks rising up the wall• If the problem is coming up from the floor, you may notice floor coverings lifting up.	<ul style="list-style-type: none">• Water from outside penetrates the building substrate.• Will move horizontally, rather than by travelling up walls• Serious damage to the structure of building.• Usually caused by problems in a building construction• Improper cement mortar grade, inefficient mixing, cracks in the walls,	<ul style="list-style-type: none">• Damp patches on internal walls• Mould growth on window sill• Pools of water on window sills• Peeling wallpaper• Black mould spots on walls, ceilings and skirting boards• Unpleasant damp smell

Some of the latest methods used for treating damp wall surfaces include:

- Advanced Waterproofing Coatings: High-performance with enhanced water resistance
- Membrane-Based Systems: Installing breathable membranes to prevent moisture entry
- Silane-Based Treatments: Silane-based products to repel water & prevent dampness.
- Chemical Injection: Involves injecting specialized chemicals into walls for prevention.
- Thermal Imaging: Utilizing thermal imaging technology to detect and locate damp areas.
- Nano-Coatings: To create a hydrophobic (water-repelling) surface.
- Electro-Osmosis Treatment: Uses an electric current to remove moisture from walls.

Several leading paint companies have exterior paints that are elastic in nature and can help bridge fine hairline cracks developing in plaster, especially in regions with extreme temperature variations between seasons. This can help ensure that walls are not moist through the monsoons due to fine cracks in plastering. Look for products that are water-based, low-VOC (volatile organic compound), and made from recycled or rapidly renewable materials. Reputable companies often offer LEED or IGBC-certified options.

IMPORTANT : While carrying out treatment , surface should be totally dry. Clean the surface: Remove dirt, and old coatings using a steel wire brush, scraper, or sandpaper. Fill cracks and holes with a suitable compound and sand smooth. Apply a liquid damp proofing solution, Waterproof coating reinforced with fibres or a bitumen-based coating. Follow manufacturer's instructions for application and drying times.



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- ★ Single spout Open mouth type packing machine
- ★ Weigh feeder
- ★ Silo For Packing Machine
- ★ Spare Parts
- ★ Gravity Force Packer

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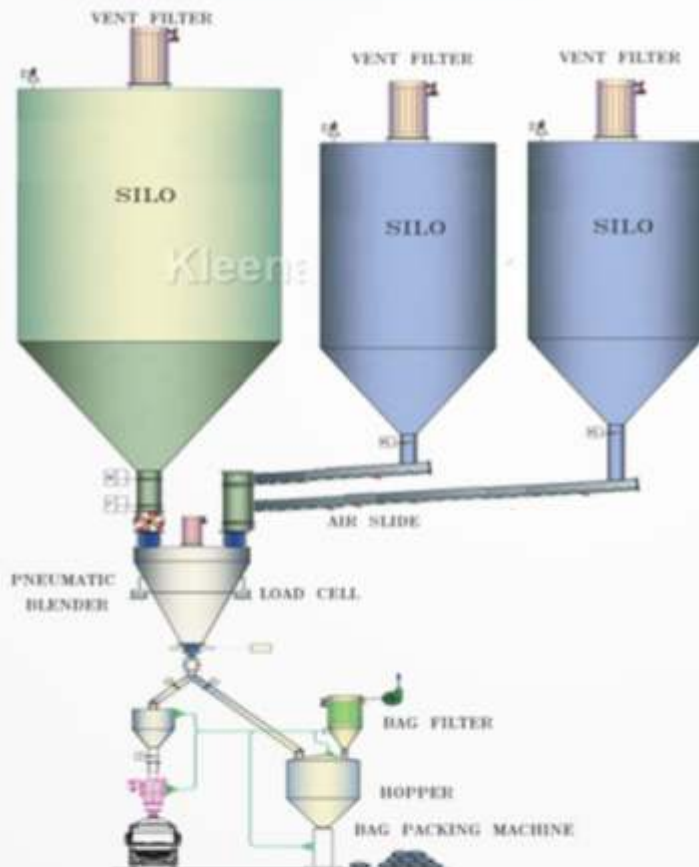
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- Pneumatic blending (Batch type).
- Twin shaft blender batch type

The beauty of this system is that anybody can bring in their recipes and the testing can be carried out. Accordingly, the system capacity of the Dry Mix mortar/ Putty plant can be arrived upon.

The pneumatic blender is a very unique machine. It consumes very little power and has low maintenance costs. It is suitable for non-cohesive/ non-lumpy powdery materials.

On the other hand, the twin shaft blender is excellent for cohesive/ lumpy powdery materials, as it has an additional lump breaker facility along with it.

This is one of the unique testing facilities available in India, where the customer can bring up their recipes and test the same.



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My Plant Diaries :

PLANT MANAGEMENT EXCELLENCE : DR. S.B. HEGDE



Dr S. B. Hegde can be introduced as Professor, Ex President - Manufacturing (Cement Industry), Global Consultant / Advisor, Domain Expert in Cement in International Bodies and Recipient of the prestigious "Global Visionary Award" (2020). He is a Seasoned, Global and Accomplished Cement Industry Professional, 3 decades of experience with demonstrated history of working both in and outside India.

Inspiring Plant Management Excellence: The Power of Daily Plant Rounds

As a Plant Manager here's why daily rounds should be a non-negotiable part of routine:

- Housekeeping and Safety:

Daily plant visits allow you to personally inspect the housekeeping of plant areas and the condition of machinery. Identifying unsafe conditions, especially in less frequently visited areas, is crucial for maintaining a safe working environment.

- World-Class Manufacturing:

Regular rounds help in controlling and optimizing costs and manpower. They also foster a culture of enthusiasm and motivation among employees, which is essential for achieving operational excellence.

- Leadership Presence:

Daily visits reveal the politeness, sincerity, and punctuality of Heads of Departments (HODs) in their respective areas. They provide insights into the management of raw materials, alternate fuels, and coal yards.

- Operational Awareness:

By being on the ground, a plant manager gains a firsthand understanding of plant operations. This knowledge is invaluable during daily plant meetings, ensuring that no one can mislead you about the plant's status.

- Employee Engagement:

Engaging with employees of all designations during rounds helps reinforce the plant's vision, mission, quality policy, and safety policy. Surprisingly, many employees might not be fully aware of these aspects, and regular interactions can bridge this knowledge gap.

I made it a habit to ask employees about our vision, mission, and policies. This practice not only ensured that they were well-informed but also made them feel involved and valued. However, I have observed irrespective of any country where I have visited, in many plants that plant managers are avoiding these crucial plant rounds and are overly reliant on their subordinates' feedback. As a result, these plants mostly suffer, unable to control costs, maintain quality, and extract the full potential of each employee.

In Conclusion, daily plant rounds are more than a routine—they are a strategic practice that drives operational excellence, enhances safety, and boosts employee morale.

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My Recycling Diaries :

RECYCLING AAC WASTE IN AAC BLOCKS MANUFACTURING



Javed Mansuri, Plant Head & Technical Manager is an expert with 13yrs experience in Building material products, Readymix plaster, tile adhesive, dry mix mortar, block joining mortar, wall putty, AAC blocks, Bentonite grinding. He is currently working in Zambia and has given us this simple but effective article.

Various studies have explored using different waste materials in AAC production to replace sand or silica-based components. For instance, **expanded perlite waste** (EPW) has been tested as a substitute for ground quartz sand, resulting in decreased **thermal conductivity**. However, increasing the weight percentage beyond 10% can compromise compressive strength.

Substituting materials like **iron tailing** and **desulfurization slag** negatively impacted compressive strength when exceeding 15% by weight. Municipal solid waste **incineration bottom ash** (IBA) has been used to replace silica flour/fly ash, improving compressive strength due to a uniform pore structure, though thermal conductivity results were not provided.

Glassy waste was utilized to replace a portion of sand, maintaining a similar compressive strength to conventional AAC.

Additionally, AAC made by replacing sand and lime with **waste sugar sediment** showed significant improvements in weight reduction and compressive strength, potentially eliminating the need for insulation layers in building blocks.

The AAC-Recycling waste powder has been explored for floor applications, but its use in building walls and its impact on mechanical properties remain unreported. Utilizing AAC waste from production and construction sites can reduce costs and landfill waste, thereby lessening **environmental impacts**.

Altering the sand composition affects AAC porosity, influencing density, compressive strength, thermal conductivity, and heat transfer between building walls and the environment. Studies have investigated AAC samples with varying ratios of AAC-Recycling waste powder to fine sand, focusing on mechanical properties and potential benefits for reducing cooling loads in hot and humid climates.

Some tests showed the highest compressive strength (5.85 N/mm²) and the greatest proportion of **tobermorite phase** (71.3%), surpassing other AAC mixes. And compressive strength was higher compared to other mixes.

AAC-Recycling waste powder, being a by-product with environmental drawbacks, when used in large quantities, could mitigate waste disposal impacts.

It's suggested to commercialize these new recycled AAC block samples due to their potential as an alternative to traditional concrete in **non-structural walls**. Also, We can use AAC-Recycling as a concrete wall-building material after a few tests.

OVER 11.8 M HOMES SANCTIONED

PMAY Urban 2.0 Fund Boost to Speed Up Affordable Housing

Allocation of funds under the scheme more than doubled to ₹10 lakh crore

Kailash Babar

Mumbai: The government's decision to more than double the fund allocation to ₹10 lakh crore to provide financial benefits under the Pradhan Mantri Awas Yojana (PMAY) Urban 2.0 plan over the next five years is expected to boost the affordable housing segment, allowing those migrating to cities for a livelihood to secure reasonable accommodation.

PMAY-U is among the major flagship programmes being implemented by the government to provide all-weather pucca houses to all eligible beneficiaries in the urban areas. Under PMAY-U, more than 11.8 million homes have been sanctioned while nearly 9 million houses have already been constructed and delivered to the beneficiaries.

- "The nature of the housing scheme has changed in its new avatar. The government is using a wider mix of schemes ranging from interest subsidy to credit guarantee. While the quantum of interest subsidy per beneficiary has been scaled down, the government's capital support



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will help a larger base of needy population. The government intends to do both — enhance its capital productivity and accelerate the 'Housing for All' timelines," said Vivek Rathi, National Director Research, Knight Frank India.

Along with addressing the current housing deficit, the initiative also sets a new benchmark for future urban development.

"The decision not only promises to uplift the quality of life for millions but also catalyzes the growth of the real estate sector, spurring job creation, and fostering economic resilience. By providing financial assistance through states, union territories, and public lending institutions, PMAY-U 2.0 strengthens the collaborative framework between the government and private sector, essential for realising the goal of inclusive ur-

ban development," said Prashant Sharma, President, NAREDCO Maharashtra.

Multiple incentives and support measures proposed under PMAY 2.0 urban category will boost both development and participation.

"The expansion of the MIG category to include units up to 120 sq meters is expected to enhance the absorption of unit supply and increase developer participation from urban areas. Additionally, the introduction of an interest subsidy scheme, similar to credit-linked subsidy scheme (CLSS), will provide relief amid the current high loan rates of 8.5% to 9%," said Jash Panchamia, partner, Suraksha Group.

According to him, the increase in the corpus fund under Credit Risk Guarantee Fund Trust (CRGFT) from Rs 1,000 crore to Rs 3,000 crore is likely to encourage more lending institutions to participate, especially those traditionally hesitant to lend in the affordable housing sector.

The government has halved the annual income limit for MIG households to Rs 6-9 lakh from earlier Rs 12-18 lakh. NAREDCO's Sharma believes the focus on affordability and accessibility ensures that urban housing is within reach for those who need it most.

Panchamia believes the new direct subsidy mechanism through Redeemable Housing Vouchers could introduce complexities, particularly in cases of defaults or cancellations.

Realty Sector to Get a Boost from Govt's Focus on Affordable Housing, Infra Push

Ready-to-move parks, allocation of ₹10L cr for PMAY to aid job creation and industrial growth

Kailash Babar

Mumbai: The government's focus on affordable housing, infrastructure development and urban planning is expected to provide a boost to the real estate sector, industry experts said.

Plans to formulate policies for rental housing, land record digitisation, transfer-oriented development of cities with a population of over three million and development of industrial parks will also benefit the sector, they said.

The decision to support construction of 30 million additional homes under the Pradhan Mantri Awas Yojna, with an allocation of ₹10 lakh crore towards 10 million homes



in urban areas and the potential reinstatement of interest subsidies, is expected to support the affordable housing segment.

The proposed development of investment-ready industrial parks in or near 100 cities, along with sanctioning 12 industrial parks under the National Industrial Corri-

dor Development Programme, will likely encourage industrial growth, create jobs and attract investments, experts said.

The government's plan on urban development and land management are expected to have a significant impact on the cities and industrial landscape. Proposals to develop cities, form policies for brownfield redevelopment and promote transfer-oriented development in large cities, will likely lead to more efficient use of land, reduce congestion and improve infrastructure.

The introduction of unique identification numbers for land parcels in rural areas and digitisation of urban land records using GIS mapping are expected to bring transparency and streamline land transactions, reducing disputes and frauds.

Overall, these initiatives aim to create a more organised, efficient and investment-friendly environment, which will likely lead to improved quality of life in cities, increased industrial growth and employment opportunities, enhanced transparency and reduced corruption in land transactions.

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