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- Benefits : Cement Workability Anti slip / Anti-Sag Thickening Open time Adjustment time Cost reduction Bounce back reduction Application Speed
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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 The Quick Finishing Nuclear War : Pressing Only One Button

Can you finish a war by pressing just one button ?, I want to put my thoughts on this subject for a special purpose. I don't now why to mention them, but the readers should at least think about the luxury of life which we are all currently experiencing & feel good about it.

#### **The History**

Why One Button ?, Let me explain with calculations. The Little Boy atomic bomb, dropped on Hiroshima on August 6, 1945 (15 KiloTons of TNT) charred an area of 1.3 KMs with temperatures reaching much over 1000 degree Celsius. Plus it had a lot of side effects which were long term & devastating. This was very basic technology in Bombs. Just like a calculator to compare with current AI super computers. A Baby bomb.

In the year 1961, the Soviet Union tested a nuclear bomb which was 50 MegaTons of TNT. This was like 3000 Little Boy bombs together, which means 3,900 Sq.KMs area would be burned to ashes including buildings. Now these are 65 year old redundant technologies, really puny & laughable.

#### The Size

From 1945 to 1961, the capacity to burn per Sq.KM increased from 1.3 KMs to 3,900 Sq.KMs & most probably today, these bombs have reached a potential 1000 times by 2025. Which means one bomb incinerates 4 Million Sq. KMs area. But the entire India is just 3.3 Million Sq. KMs & therefore only 1 bomb is good enough for the entire country. Thus the "ONE BUTTON WAR"

#### **The Players**

The United States and Russia together hold 88% of the world's nuclear weapons. Seven other countries also hold these nuclear weapons. They are China, France, UK, Israel, North Korea, Pakistan & us, India. Total Nine Countries have officially declared to the world that they have developed and kept in stock these mass death devices. Others could be hiding or lying. No idea.

#### **The Fear**

India conducted its first nuclear test in 1974 and officially became a nuclear power in 1998. It follows a No First Use (NFU) policy but maintains a strong deterrence strategy. India also has developed ballistic missiles capable of carrying nuclear warheads. Pakistan developed nuclear weapons in response to India's nuclear program. However, It does not follow a No First Use policy and has tactical nuclear weapons. Pakistan's nuclear strategy focuses on countering India's conventional military strength. Does this mean that they may press the button first ?,

At this point, I stopped my thinking. It is a very simple fact that only pressing a button could decide the fate of the country and within a few seconds, everything with turn to Radioactive Fly Ash.

Till then, enjoy the luxury of life, feel good what you did today, cherish the relationships of today. What do you know, KAL HO NA HO !!!

#### Keep Reading Drycotec Diaries . . .

**Dr. Mandar Chitre** Editor & Founder – Drycotec Diaires & Drycotec Drymortar Association





## DRY MIX MORTAR PLANT

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



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#### CONTACT

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# **INCEA 2@25**

# ISDA INFRACON NATIONAL CONFERENCE EXHIBITION & AWARDS -2025

Theme - Towards Carbon Neutrality: Innovations and Challenges in Construction & Infrastructure Sector

> 14th June, 2025, Le Meridien, Janpath, New Delhi

My Brand Diaries : GOOD NEWS !!! DRYCOTEC IS NOW A REGISTERED BRAND

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A registered brand is a trademark that has been officially recorded with a government authority, typically a trademark office, to grant legal protection to the brand name, logo, or symbol. Registration ensures that the owner has exclusive rights to use the brand for their products or services and can take legal action against unauthorized use. In essence, it helps businesses distinguish themselves in the marketplace and build consumer trust.

Registering a brand comes with several valuable benefits, including :

- **Exclusive Rights**: Only you have the legal authority to use your brand name and logo in connection with your products or services.
- **Legal Protection**: Helps prevent others from copying or misusing your brand, allowing you to take legal action against infringements.
- **Brand Recognition & Trust**: Consumers often associate registered trademarks with authenticity, professionalism, and quality.
- **Business Value & Growth**: A trademark can become an important asset, increasing your business's worth and making licensing or franchising easier.
- **Global Expansion**: Registered brands can pave the way for international trademark registration, protecting your brand in other countries.

Registering a brand in India involves several steps to ensure legal protection under the **Trademark Act**, **1999**. Here's a simplified process

- 1. **Choose a Unique Brand Name** Select a distinctive name, logo, or symbol that represents your business.
- 2. **Conduct a Trademark Search** Check the **IP India Portal** to ensure your brand name isn't already registered or similar to existing trademarks.
- 3. File a Trademark Application Submit Form TM-A online or offline through the Trademark Registry.
- 4. **Examination & Objections** The trademark office reviews the application and may raise objections if necessary.
- 5. **Publication in Trademark Journal** If approved, the trademark is published for public review. If no objections arise, it moves forward.
- 6. **Trademark Registration & Certificate Issuance** After the waiting period, the trademark is officially registered, granting you exclusive rights.



## RELIABLE EFFICIENCY. UNMATCHED ACCURACY. PERFECT FOR EVERY DRY MIX PACK.

Packing Range : 10-50 Kg/bag

Type of Bag: Open Mouth Bag with or without linear

Speed : 10 bags/min

Accuracy : ±100 g

Engineered for precision and speed, the PMT 2.2.1 Screw Packer is the ideal solution for packing drymix materials into open-mouth bags with seamless accuracy and high output.



#### Dual Weigh, Single Discharge System

Achieve faster operations with synchronized dual weighing for consistent output.

Accurate Net Weighing Technology

Delivers reliable and repeatable precision, ensuring minimal product giveaway.

#### Optimized for Open-Mouth Bags

Designed to handle diverse drymix applications with flexibility and control.

Also available in fully automatic model with integrated Bag Placer, Dispenser, and Palletizer.



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"

Investment & ROI Analysis: Sand-Based AAC Block Plant (600 m³/day)

After my recent post on the cost analysis of sand-based AAC block production, I received a great response and many inquiries about investment requirements and ROI. So, here's a detailed breakdown for those interested in setting up a 600 m<sup>3</sup>/day AAC block plant.

#### **Capital Investment Breakdown**

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Setting up a 600 m<sup>3</sup>/day AAC block plant requires strategic investment across key areas:

- Land & Infrastructure : ₹3–5 crore (varies by location & size)
- Machinery & Equipment : ₹6–10 crore (autoclaves, mixers, conveyors, cutting machines, etc.)
- Working Capital (3-6 months) : ₹2–4 crore (raw materials, wages, electricity, etc.)
- Miscellaneous & Contingency : ₹1–2 crore

☑ Total Estimated Investment : ₹12–21 crore

#### **Revenue & Profitability**

With optimized production and market pricing, here's what a 600  $m^3$ /day plant can generate :

- Selling Price (Market Rate): ₹2,800 ₹3,500 per m<sup>3</sup>
- Daily Revenue: ₹16.8 ₹21.0 lakh
- Daily Profit: ₹1.4 –₹7 lakh (after raw material & operational costs)
- Annual Profit (300 working days): ₹4.2 ₹21 crore

#### **ROI & Payback Period**

- Based on profitability, the expected payback period is:
- ☑ 1.5 to 5 years, depending on:
- $\checkmark$  Raw material sourcing & cost optimization
- $\checkmark\,$  Market demand & selling price
- ✓ Production efficiency & wastage control

#### Why Sand-Based AAC Blocks?

- So Growing demand for sustainable, lightweight, and thermally efficient building materials
- Higher strength & durability compared to fly ash-based AAC in some regions
- P Alternative to fly ash, especially where supply is limited

#### **Key Cost Optimization Strategies**

- Use M-Sand instead of river sand to cut costs
- Optimize mix design to reduce cement & lime consumption
- Improve curing & drying to enhance strength & reduce rejections
- Leverage automation for consistent quality & efficiency

#### Interested in Investing? Let's Connect!

AAC block manufacturing is a high-potential, high-growth sector. If you're considering investing or want a detailed feasibility report, let's discuss!

You can contact the author via us, write to mandar.chitre@batonconsultants.com

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#### ACCESSORIES

QUAT<sup>2</sup>RO® DPS Data processing system



Software for storage and evaluation of weighing data



- Display can be individually configured
- Saves data as proof of your quality controls
- Offers export and import of data

#### Bag scanner



The bag scanner as a reliable control unit

- Checking whether it is the correct tubular film for the selected product
- Control whether the printing is correct, if a printer or labeler is connected upstream

#### Fully automatic reel changer



Film reel changer for highest production output

- Increased economic efficiency through reduced downtimes
- High degree of automation
- Product variety
- Short set-up times

#### QUAT<sup>2</sup>RO<sup>®</sup> Monitoring



Intelligent system monitoring

- Monitor the production of your machines in real time
- Recognize wear and tear at an early stage
- Increase your efficiency by comparing the machine data
- Proactively plan your maintenance based on the machine data
- Check machine settings and optimize your planning

#### QUAT<sup>2</sup>RO<sup>®</sup> Remote Service



Remote support by experienced OEM-experts

- Enjoy the OEM security that your systems work optimally
- Get concrete advice on technical and filling questions
- Enjoy knowing there is always someone who can help
- Motivate your team and give them safety
- Offer your team a perfect support with learning effects
- Reduce your downtimes

#### QUAT<sup>2</sup>RO<sup>®</sup> Analytics



Make the long-term interpretations of your system data usable

- Convert these insights into profit and optimized operating conditions
- Take advantage for predictive maintenance and optimum spare parts stocking
- Profit from ideal maintenance work time management
- Motivate your team, give them confidence and the perfect support with learning effects
- Reduce machine downtime

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#### ACCESSORIES

#### Fully automatic reel changer



Film reel changer for highest production output



High degree of automation

Product variety

Short set-up times

#### Printing systems/Labelers



Position accurate bag printing

The following printing options are available:

- Empty bag printing by laser (CO<sub>2</sub> and fiber laser), inkjet or labeler
- Full bag printing by inkjet

SEAL control

#### Belt conveyor



Modules for complete full bag transport

- Various adjustable elements
- Guarantees proper filling
- Increases process reliability
- Optionally completely encapsulated

#### Automatic bag discharge



Control and rejection of defective bags

- Transports rejects to material return
- Provides real-time information on product quality
- Can be individually configured
- Offers export and import of data



Control instrument for the bag closure

- Checks the tightness of the sealed bag
- Gives feedback to the machine or to the spout
- Is easy to operate
- Can be retrofitted installed

#### Check weigher



Weighing technology from the company Wipotec

- Offers automatic weight control/ check weighing
- Shows adjustable tolerance range
- Is the feedback control to the filling spout
- Ensures proper filling

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#### ACCESSORIES

Palletizer

#### Pallet press



Module for safe full bag transport

 For the safe transport, the bag stacks are carefully pressed before stretching



Module for automatic full bag transport

- Fully automatic palletizing of full bags
- Adaptable to any packaging capacity
- Careful bag handling ensures a stable pallet pattern and safe transport

#### Hood and wrap stretchers



Module for safe full bag transport

- Fully automatic systems for safe transport protection
- Stabilization of critical cargo areas

#### Pallet loading system

Fully automatic loading



Mobile control device in tablet format

**HAVER Service Pad** 

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 Increases ease of use in daily operation



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For more information get in touch with us at <u>c.gundigara@haveribauindia.com</u>

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### My Technical Support Diaries Grouts : Research Paper

Author Dang Thuy Chi from the University of Transport and Communications, No 3 Cau Giay Street, Hanoi, Vietnam has written an excellent paper on Grouts & we want to explain it to our readers in a easy form.

Cement-based grouts are widely used thanks to its outstanding features such as high workability, non-separation, non-bleeding, easy to fulfil small gaps with complex shapes.

The researcher has made Portland cement-based grout with superplasticizer, fly ash, fine aggregate, water along with expansion agent to match as closed as possible the given high strength non-shrink grout. The high range water reducer (HRWR) at dosage of 1% by weight of cement was used as a flowability modifying chemical admixture to prevent water segregation and leads to an increase in compressive strength. The parameter tests consist of water-cement ratios, and fixed dosages of superplasticizer and expansive agent.

Materials	CT1	CT2	CT3
PC40 portland cement (kg)	500	550	615
Sand (kg)	1193	1193	1193
Fly ash (kg)	321	279	224
Water (kg)	195	195	195
Expansive agent (kg)	50	55	61,5
HRWR (kg)	5.0	5.75	6.15
W/B	0.33	0.31	0.29

The Researcher Dang Thuy Chi has used the following combinations,

The high range water reducer was a polycarboxylate powder, which allows improving and maintaining the flow ability of the grout. An expansive agent based on CSA (calcium sulphoaluminate) was used for all the grout mixtures in order to emphasize the properties of the length-change by both increasing the initial expansion and reducing the subsequent drying shrinkage. The grout mixtures were mixed in a Hobart mixer (5 liters) at 140 rpm. The procedure consisted of adding all dry materials to the mixer and pre-mixing for 1 minutes. Afterwards, the water was added. The grout was further mixed for 2 minutes, allowed to rest for 30 s, then mixed again for 2 minutes. For the strength at early age, the specimens were demolded and tested after 1 day. After 24 hours, the other specimens are removed from their molds and stored in moist rooms at saturated humidity and temperature at  $20 \pm 2^{\circ}$ C until 28 days.

"

	Compressive strength (MPa)				Flexural strength (MPa)			
Mixtes	1 day	3 days	7 days	28 days	1 day	3 days	7 days	28 days
CT1	25.3	38.5	51.4	61.3	5.1	6.6	8.0	8.8
CT2	31.2	45.3	55.8	67.7	5.9	7.2	8.4	9.3
СТ3	35.7	52.6	61.6	71.6	6.2	7.8	9.1	9.5

The dry shrinkage test results of CT3 mixte and control sample (without expansive agent) are shown below,



#### **The Conclusion**

The Results

The main purpose of this paper was to create some grout mixtures with minimized values of bleeding, appropriate flowability, high compressive strength, and in-range drying shrinkage for a high performance grout. This aim was achieved by using a polycarboxylate superplasticizer and a CSA expansive agent.

This study demonstrates that it is possible to successfully using proactive materials to produce high strength non-shrink grouts. It is to highlight that the 28 day compressive strength can be achieved up to greater than 60 MPa while maintaining the Standard specifications for the grout mortar in terms of flowability, fresh expansion, bleeding, and dry shrinkage. The products can be produced and used for the real construction applications.



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## **Ny News Diaries**

UMBA1 | WEDNESDAY | 30 APRIL 2025 | WWW.ECONOMICTIMES.COM

#### STRONG GROWTH DRIVERS FOR SECTOR

# Insolvent Cement **Cos Attract Investors Seeking Value Buys**

Valuation discount, market potential and synergies driving deals under IBC process

#### Maulik Vyas

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ap пс led er. Mumbai: Several strategic buyers as well as investors are actively scouting for cement manufacturing companies which are currently undergoing the corporate insolvency resolution process under the Insolvency & Bankruptcy Code.

One of the most sought-after assets in the sector is the cement business of debt-laden Jaiprakash Associates (JAL). The company has four plants in North and Central India and has a capacity of about 6 million tonnes per annum. Its plants are at Rewa in Madhya Pradesh and Chunar, Churk and Sadwa in Uttar Pradesh.

The company's resolution professional, Bhuvan Madan, has received expressions of interest from companies including Adani Enterprises, Dalmia Cement (Bharat), Vedanta and Rashmi Metaliks. Apart from cement, JAL also has assets in power; hospitality and real estate, and hence about two dozen bidders have shown interest in multiple assets.

Investors and strategic buyers are also closely observing the ongoing insolvency cases against companies, including Jammu & Kashmir Cements, Kirtiman Cements & Packaging and Gujarat-based Dhara Cements (India).

"The sector has been quite active and holds considerable potential for distressed M&A," said Karishma Dodeja, partner at the law firm Trilegal. "This is because of the wave of consolidation brought on by Ultratech and Adani Group, the strong infrast ructure push by the govern-

and the high debt burden of some of the smaller cement companies. making them attractive targets for acquisition," she said.

Recently, the Mumbai bench of the National Company Law Tribunal (NCLT) approved Vadraj Cement's acquisition by Nirma group-owned cement maker Nuvoco Vistas Corp.

Around the same time, Virgo Cements, a smaller operator with 74 crore in admitted claims, also secured a resolution after its lenders. including Punjab National Bank and Indian Bank, voted unanimously in favour of PRAG India's bid

Legal experts are citing pricing. location and synergies as the three primary reasons for the surge in deals in the sector. Most cement companies are available at a discount. Also, medium and small players are located at

less-penetrated Oneof the most sought-after assets in the sector is the cement business of debt-laden Jalprakash Associates

and high-growth markets and for large players, addition of medium and smaller cement makers ofattractive fers cost optimisation opportunities.

Nishith Dhru-

partner of law firm MDP Legal. said those cement plants, which are being operated as going concerns, are witnessing keen interest from the strategic players, especially those with approval for additional capacities.

"The IBC process offers an opportunity for strategic consolidation at competitive valuations and with adequate liquidity, several bidders are eyeing those assets," said Dhruva, who has represented secured lenders and resolution professionals in several insolvency resolution cases

In August 2023, the Chandigarh NCLT had admitted state-owned Jammu & Kashmir Cements for insolvency resolution process in an application filed by Jammu

& Kashmir Bank. A couple of large players, with presence in North India, are contemplating acquiring the state-owned company

managing va.

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#### My Leisure Diaries :

#### **Randomly Picked Article on WhatsApp (Author : Not Traceable)**

Engineering is all about math, science, and a fair bit of hype! But amidst all this chaos, who is a true engineer? It's the one who stands tall amid storms, playing a role as firm and foundational as the base of a building – just like a cube, whose real strength is revealed only through testing! A site engineer is a responsible individual, bearing the weight of the entire project. From pouring the material to ensuring the right mix ratios, and then comes the big moment – the cube test day! This moment is like a trial by fire in the world of engineering.

Now, there are two types of cube tests – compressive and tensile strength tests.

The same principles apply to people! Some emerge stronger through adversity, while others crack under the first blow.

#### **Compressive Test – Warriors Who Withstand Pressure**

Compressive test is the test of resilience. Many historic figures have passed it with flying colors :

Chhatrapati Shivaji Maharaj – Stood firm against	Lokmanya Tilak – Faced British oppression			
Afzal Khan. Even under immense pressure, his	without flinching, boldly proclaiming, "Swaraj is			
confidence never wavered.	my birthright!" His resolve stayed unshaken.			
Bhagat Singh – Stood defiant against tyranny. Even in the face of death, the fire of revolution in him never dimmed.	Chhatrapati Sambhaji Maharaj – A warrior through and through. He endured brutal torture, but never bowed before the enemy.			

#### Tensile Test – Flexible Yet Strong Individuals

The tensile test reveals who can stretch without snapping. Some people are flexible, but their inner strength never lets them break.

- Bagha Jatin Fought the British with relentless spirit, disregarding personal safety. His mental toughness never faltered.
- Chandrashekhar Azad Declared he would never be captured alive and embraced martyrdom without breaking his ideals.
- Veer Savarkar Despite inhuman torture in the Andaman's Cellular Jail, the thread of his revolutionary mission never snapped.

The Engineer and His Test

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A site engineer prepares many cubes every day – some pass, some fail. But the truth is, life is just the same. The one who stands firm under pressure is the true engineer – whether of cement and steel, or of life itself.

#### Final Support – Construction and Character

In the end, life is like construction – if the mix is right, the structure is strong. So when troubles come, don't be afraid. Be tough like a cube, and when needed, be flexible enough to endure the stretch. Because both compressive and tensile strength are essential – whether in buildings or in people. If there's a crack, collapse is not far behind. (Just as a cube is placed into a machine to be tested, life too puts us into the machine of circumstances – and the one who emerges unbroken is the true "warrior"!)

"

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- Feeder Type Twin Screw Feeder Twin Screw System
- > Weigh hopper mounted on load cell 2 Nos
- Dump Hopper with Pneumatically operated Bag Clamp. - 1 No
- Microprocessor Based Controller, Electrical Panel for Feeder & HMI System
- Bag Filling Machine comprising of Screw feeders for coarse & fine feed-2 Nos
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	<ul> <li>Photoinitiators</li> <li>Oligomers &amp; Monomers</li> </ul>	Kaneka The Disonalogy Company	VCVA Terpolymers
MICAS	<ul> <li>Organic Pigment &amp; Anti-corrosive Pigment</li> </ul>	*MITSUBISHI	TPA Resin
•XERRA	Synthetic Iron Oxide	synthomer	<ul> <li>Rosins</li> <li>Hydrocarbon Resin</li> <li>Acrylic &amp; XSBR Emulsion</li> <li>APO</li> </ul>
Shin Etsu	<ul> <li>MHEC &amp; HEC</li> <li>VCVA Co-polymer</li> </ul>	тозон	<ul> <li>Silica Matting Agent</li> <li>EVA Copolymers</li> </ul>
SONGWON	Light Stabilizer & UV Absorber		<ul> <li>DISPERMAT<sup>®</sup> Dispersers, mixers, stirrers, basket mills &amp; bead mills.</li> </ul>
WACKER	<ul> <li>Dispersible Polymer Powders</li> <li>Silicone Emulsions &amp; Water repellent</li> <li>Silicone Resin</li> </ul>		

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