

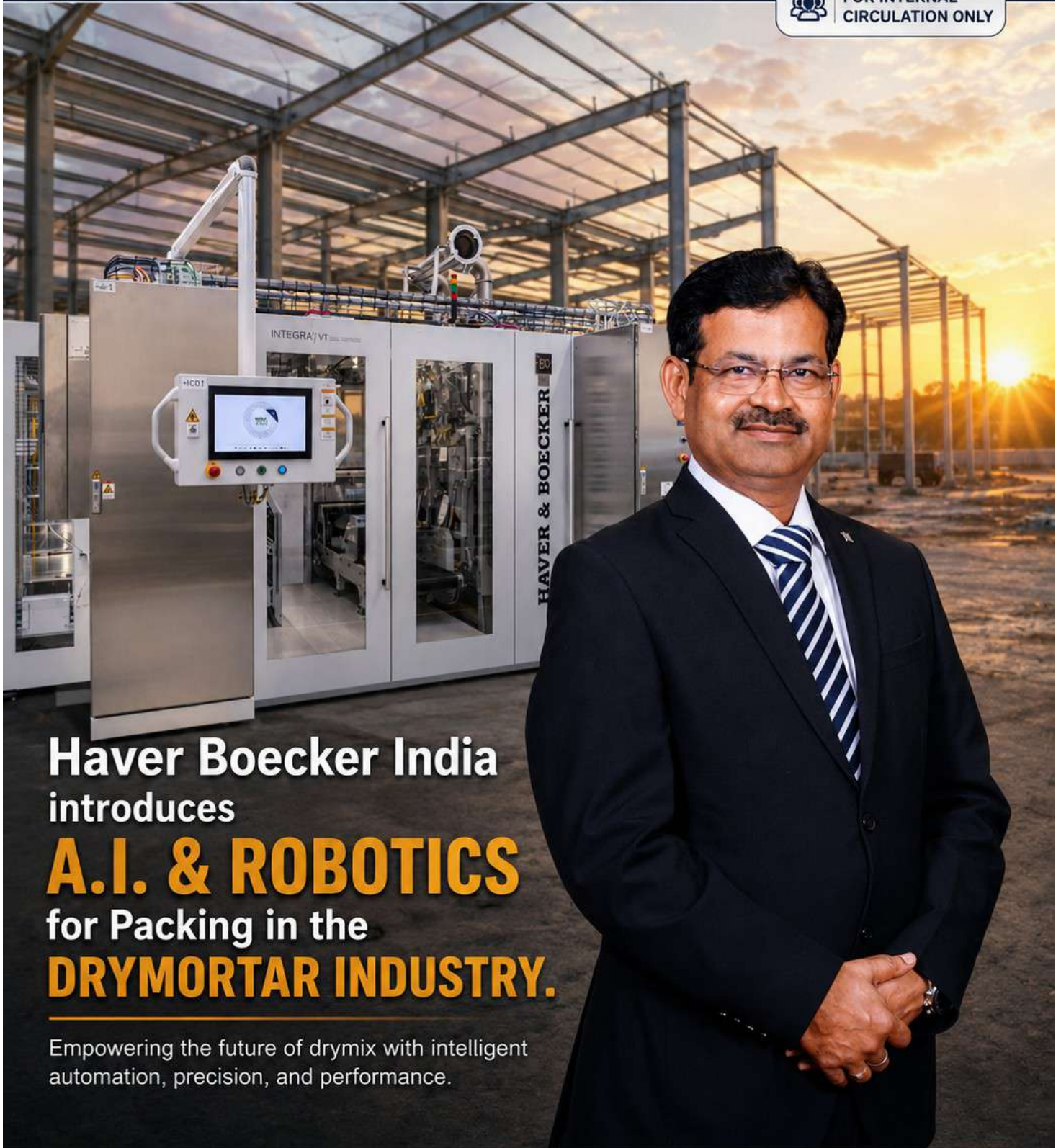
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AUGUST 2026 EDITION

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Editor's Page : The Driver of Drivers

Dear Business & Technology Drivers, this article is not about you. It is about those talented young professionals who are driving you, literally. Yes, the various cab drivers. I never use my own car & always prefer the App Cabs. With my travel, I have observed a few classic trends & categories of drivers that you want to watch out for & take a stance to ensure that your ride is comfortable.

The Chatter

Was working earlier in a corporate/petty business Has now entered the profession of driving people around the busy city. Cannot keep his mouth shut. Every word becomes a conversation. The entire ride is a pleasurable only if you are in a mood. Else can be a irritating experience.

The Gossiper

Continuously on phone for hours, keeping a low volume & a few small laughs. Not irritating but certainly bugging. I always wondered who is the recipient & have asked. The answer was astonishing. These are those drivers who work 14 to 16 hours a day. To keep awake, they speak to each other. This keeps them happy & alert. Interesting & true. Please don't ask them to stop because of safety reasons. It may be really unsafe if they fall asleep.

The Silent

Not a single word from their mouth, they will even not answer a question asked sometimes. Totally focused on the road & having no expression on their face. Some say they are the best, but the talkative type of customer could find them boring.

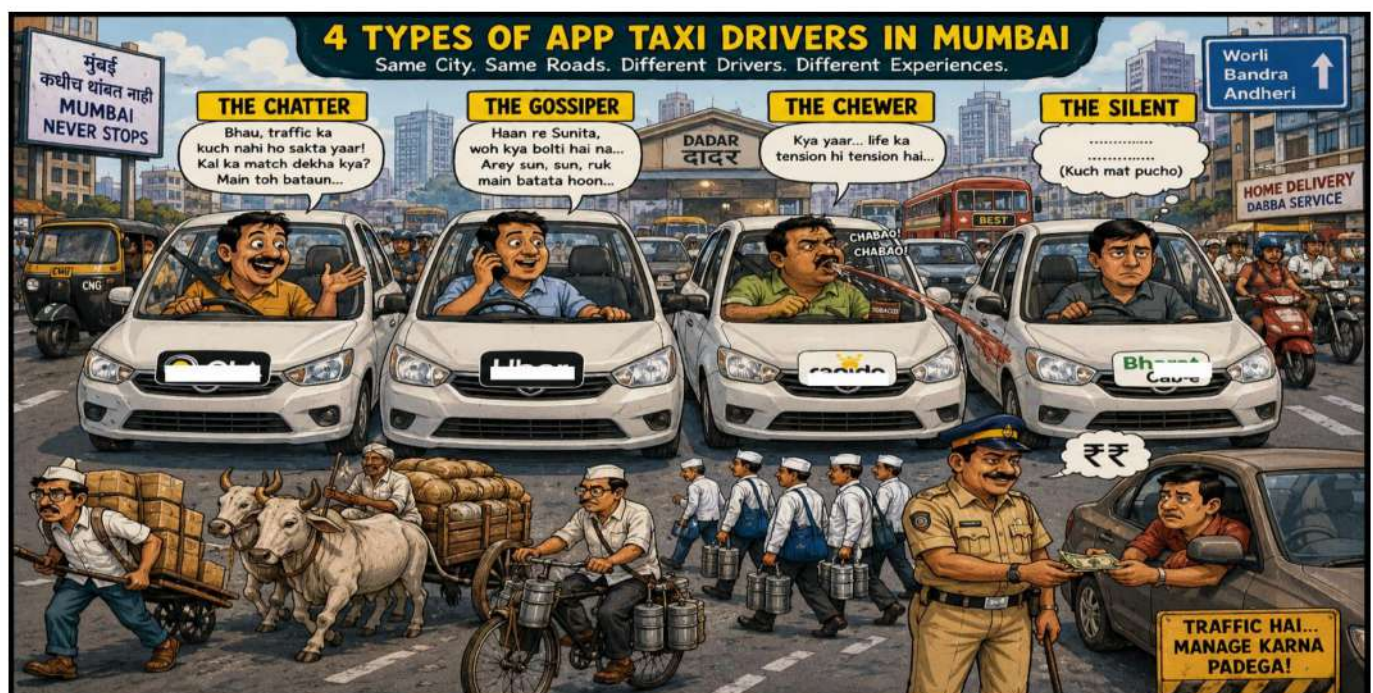
The Chewer

Did you know that tobacco is a hunger suppressant & a mind alerting edible slow poison which can give you cancer. Unfortunately, it is one of the most used drug, consumed largely by the workers & others. These drivers are continuously chewing & sometimes even spitting on the road, which is horrible. Never stop them, because they live on it. For them it is their only lunch. Let them die slowly and peacefully.

To conclude, I would like to say that please don't bother, it is just a small journey and it will end once the destination arrives.

And so is life, just a journey which will end once the destination arrives, why are we so bothered with the behavior of those who don't matter. Just chill & move ahead.

Dr. Mandar Chitre – Editor & Founder (Drycotec)





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Ploughshare Mixer

INTRODUCTION

The mixer consists of a robust fabricated mixing vessel equipped with a specially designed central shaft fitted with ploughs. These ploughs rotate at high speed to generate an intense hurling and whirling action, producing a three-dimensional mixing effect that ensures rapid and uniform blending of all materials. Average mixing time is 180 seconds.

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- Suitable for multiple industries



Capacities	300L	550L	1100L	2000L	2500L	3000L
Dry Mix Mortar Batch Size	300Kg	500Kg	1000Kg	2000Kg	2500Kg	3000Kg
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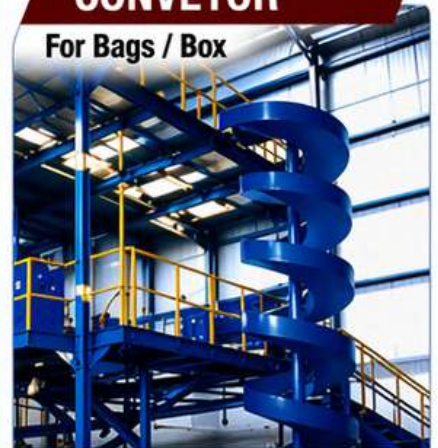
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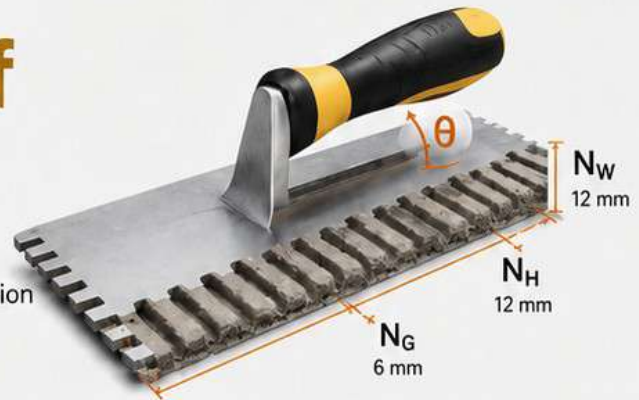
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How to Calculate the Bed Thickness of Tile Adhesive

NOTE: The size of the notch trowel and the angle of application will determine the bed thickness as per the following formula.



$$\text{Bed Thickness} = \frac{N_W \times N_H \times \sin \theta}{(N_G + N_W)}$$

- N_W = Width of notches (mm)
- N_H = Height of notches (mm)
- N_G = Gap between notches (mm)
- θ = Angle of application (degrees)

EXAMPLE CALCULATION

Using a 12mm x 12mm notch trowel, applied at 45 degrees.

$$N_W = 12 \text{ mm}, \quad N_H = 12 \text{ mm} \\ N_G = 6 \text{ mm}, \quad \theta = 45^\circ$$

$$\text{Bed Thickness} = \frac{12 \times 12 \times \sin 45^\circ}{6 + 12}$$

$$\sin 45^\circ = 0.7071$$

$$\text{Bed Thickness} = \frac{12 \times 12 \times 0.7071}{6 + 12}$$

$$\text{Bed Thickness} = \frac{12 \times 12 \times 0.7071}{18}$$

$$\text{Bed Thickness} = \frac{12 \times 12 \times 0.7071}{18} \\ = \frac{101.82}{18}$$

$$\text{Bed Thickness} = 5.66 \text{ mm}$$

TIPS:

- ✓ Always maintain the same angle while applying.
- ✓ Use the right notch size for uniform coverage.
- ✓ Check adhesion by periodically lifting a tile.



Neeraj Kumar

Technical Expert,
Ceramic & Tile
Installation Systems

My Appreciation Diaires

FIRST DISPLAY CENTRE IN SURAT BY ASCOLITE

A World-Class Experience Centre for Construction Systems & Solutions

Ascolite, one of India's leading manufacturers of building materials & CC, inaugurated its first state-of-the-art Display Centre in Surat. Designed as an immersive knowledge and engagement hub, the centre reflects Ascolite's commitment to advancing system-based construction & industry understanding of the science behind modern installation solutions.

Ascolite, (by Aswani Industries Pvt. Ltd.), since 2012 provides technology-driven solutions across the Walling, Waterproofing, Tile & Stone installation and Construction Chemicals sector, reducing labour dependency & support sustainable practices.

The sprawling 6500 square feet Display Centre brings together live product installations across Ascolite's diverse product portfolio of over 100 SKUs, offering visitors a first-hand view of how individual components come together to form high-performance, durable systems. The centre provides in-depth technical insights into material science, engineering logic, & installation methodologies, reinforcing Ascolite's philosophy of building right—not just building fast.

A key highlight of the facility is a 50-seater, purpose-built auditorium, equipped to screen. The Centre demonstrates the real-world application of Ascolite's systems across a wide range of construction environments. By presenting complete, end-to-end installations, it helps architects, consultants, and channel partners understand system compatibility, installation sequence, and performance outcomes—enabling more informed design, specification, and execution decisions.

The centre is expected to serve as a convergence point for industry professionals, facilitating collaboration, education, and informed specification decisions.

The Display Centre is not merely a showcase, but a strategic investment in knowledge, transparency, and long-term partnerships. It underscores Ascolite's role as a systems partner to India's evolving construction ecosystem—aligned with the nation's growing emphasis on quality, performance, and sustainable urban development.



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My Waterproofing Diaries : The Guarantee Statement

Author : Khanjan Shah (|Civil Engineer| |Construction Chemicals| |Product Specialist| |Business Development| |Strategic Thinker|)



Current debate in the Indian Construction Industry to give 15 years of waterproofing warranty instead of 10 years!

The debate to move from a 10-year waterproofing warranty to a 15-year warranty in the Indian construction industry is becoming serious now — especially in infrastructure, metro, tunnel, data center, and high-rise projects. But is it a technical debate or it's only about Risk Allocation, Quality Accountability & Legal liability???

Owners now ask: “If the structure life is 50–100 years, why only 10-year waterproofing responsibility?”

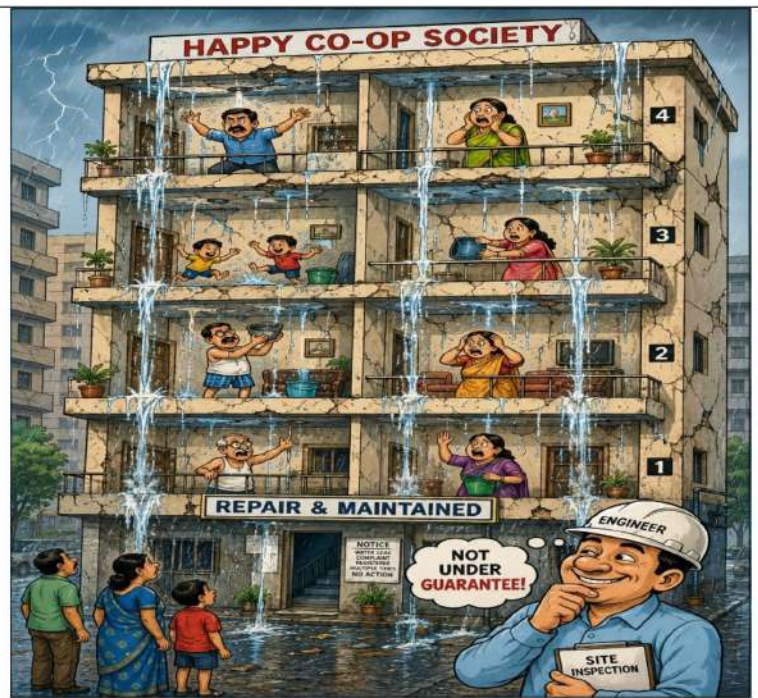
But the fact is: "Waterproofing is not an isolated product. It is part of a total building ecosystem."

Waterproofing Failure Often Isn't the Membrane's Fault, leakage is due to:

- ◆ Structural cracks
- ◆ Settlement
- ◆ Bad slope
- ◆ Blocked drainage
- ◆ Movement joints
- ◆ Plumbing & Electric modifications
- ◆ Landscaping damage
- ◆ Tile contractor puncture
- ◆ Third-party interventions

India's Maintenance Culture Is Weak. A big reality: Many buildings in India:

- ◆ Never clean terrace drains
- ◆ Never inspect movement joints
- ◆ Never repair cracks early



But waterproofing systems REQUIRE maintenance. The most practical solution should be 10-year defect warranty + Lifecycle maintenance program, instead of blindly giving 15 years warranty there should be detailed maintenance policy including annual inspections, maintenance obligation, drain cleaning, sealant replacement, joint maintenance, repair protocols etc.

Otherwise blindly giving long term warranties will lead to more disputes, claims will explode, contractors will suffer and warranty wording will become more deceptive.

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My Environment Diaries

Author : Abinash Mishra

CEO | Building Materials, Cement & Steel | Turnarounds, Scale-Ups & Transformation
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SILICATE-DERIVED CALCIUM AS A PATHWAY TO LOW-CARBON PORTLAND CEMENT

A sustainable chemistry approach that **cuts emissions** and builds the future of **low-carbon construction**.



Scientists are now exploring how basalt and silicate-derived calcium could dramatically reduce carbon emissions in Cement. This could become a strategic transformation for the entire construction materials industry. What's really happening?. Traditional cement depends heavily on limestone, which releases massive CO₂. But silicate-based pathways reduce process emissions & energy demand.

- | | | | | |
|--|--|--|--|--|
| 1 The future of cement will be shaped by decarbonization | 2 Alternative raw materials redefine competitiveness | 3 Sustainability is becoming a core strategy & not just compliance | 4 Innovation in materials science can transform heavy industries | 5 Companies adapting early to low-carbon tech may lead |
|--|--|--|--|--|

Because the next era of infrastructure will not only ask: "How strong is the cement?" It will also ask: "How sustainable is the process behind it?"

Advancing Water-Resistant Packaging for the Dry Mix Industry

In the dry mix sector, even minimal exposure to moisture can significantly impact product quality. Materials such as dry mix mortar, construction powders, and specialty blends are highly sensitive to moisture. When moisture seeps into packaging, it can lead to lump formation, loss of flow ability, compromised performance, and unnecessary product rejections.

Traditional packing systems often struggle to create a completely sealed and stabilized package. This leaves room for moisture infiltration, which results in:

Product degradation

Reduced shelf life

Higher rejection rates

Inconsistent application performance

To meet these critical industry needs, **VT Corp introduces its upgraded water-resistant packing technology**, engineered to offers:

Superior Protection

Increases Shelf Life

Maintain Material Integrity

Moisture Resistance



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ESP and Retrofitting Solutions | Bag Filter | Forced Draft Cooler
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VT Corp's Water-Resistant Packaging Technology

The VIP 3.1 VACUUM ULTRA is designed to deliver an advanced level of protection for dry mix materials through precision engineering and improved sealing performance.

Core Features

- **Laminated high-barrier** packaging designed to minimize moisture absorption and preserve product characteristics
- **Ultra-VACUUM** air removal mechanism that eliminates trapped air, ensuring compact, stable, and moisture-safe valve bags
- **Enhanced sealing** strength for consistent, tamper-proof protection
- **Spill-free filling** system supported by an accurate clamp mechanism
- **Extended product stability** through better moisture resistance and consistent material retention

These improvements help manufacturers maintain product uniformity and reduce handling and storage concerns.



Delivering Consistent Quality, Every Time

With its upgraded capabilities, VT Corp's solution sets a new benchmark in water-resistant packaging for the dry mix industry. It offers superior protection, improved process accuracy, and long-lasting material quality - ensuring that every bag reaches the end user with its properties intact.

This technology enables manufacturers to achieve:

Better pack integrity

Reduced product loss

Higher customer satisfaction

Smooth logistics and better storage efficiency

Secure Your Dry Mix Products with Advanced Water Protection

VT Corp remains committed to delivering smart solutions that enhance reliability across the dry mix packaging chain. To discover how our upgraded system can improve your packing efficiency and product quality, get in touch with our team.



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ESP and Retrofitting Solutions | Bag Filter | Forced Draft Cooler
| Packing Machine | Weigh Feeder | Truck Loader

BUILDING ON With demand growth set to moderate, cos will lean on cost controls and premiumisation to offset input-cost swings

Cement Firms Do Well Amid Strain, but Face Capacity Test

Snehal Mergu

ET Intelligence Group: Cement companies delivered strong volume growth in the March 2026 quarter, driven by construction, real estate activity, and government spending. While rising fuel and input costs weighed on margins, companies largely delivered earnings either in line with or ahead of analysts' expectations. For FY27, demand growth is expected to moderate to mid-single digit from high single digit in the previous year, while aggressive capacity additions are likely to keep utilisation levels subdued thereby constraining pricing power. Companies are prioritising cost efficiencies, calibrated expansion, and premiumisation to protect margins as near-term earnings remain sensitive to input cost volatility.

On the revenue front, Ultratech Cement and Shree Cement reported double-digit growth in the March quarter followed by Ambuja Cement and JK Cement, which recorded high-single digit growth. Dalmia Bharat, on the other hand, reported low-single digit growth in the quarter. Most companies reported decline in operating profit before depreciation and amortisation (EBITDA) as well as margin contraction due to sector-wide cost pressure particularly from fuel, logistics, and packaging. Ambuja Cement, Shree Cement and JK Cement's margin contracted on a year-on-year basis, while Ultratech Cement and Dalmia Bharat's margins expanded due to

Leaner Gains

Financials of cement companies for March'26 quarter

	Revenue (₹ cr)	YoY chg (%)	Net profit (₹ cr)	YoY chg (%)
UltraTech Cement	25,799	11.9	3,000	21.2
Ambuja Cements	10,915	9.4	1,857	37.4
Shree Cement	6,101	10.3	528	-8.3
Dalmia Bharat	4,245	3.8	394	-10.3
JK Cement	3,888	8.6	331	-8.4

SOURCE: Company data, ETIG

price increase, premiumisation and efficiency measures which offset the war impact.

The companies reported healthy volume growth, largely in the mid-to high-single digit range, driven by strong demand from housing and infrastructure. JK Cement delivered relatively stronger, double-digit growth while Ambuja Cements, Shree Cement and Ultratech Cements witnessed mid-single digit growth. Dalmia Bharat recorded lowest volume growth in low-single digit. In the coming quarters, Ultra-

tech and JK Cement expect demand momentum to sustain and are targeting to outpace industry growth.

Companies are focused on premiumisation and cost reduction to protect margins. Ultratech Cement achieved cumulative cost reduction of ₹185 per tonne. This is likely to increase to ₹300 per tonne after its capital expenditure is complete by FY28. Ambuja Cements has targeted a reduction of ₹500 per tonne over

FY27-28 through efficiency gains and better utilisation. JK Cements has implemented major cost-saving initiatives, it expects further savings of ₹50 per tonne in FY27, driven by the use of higher alternative fuels and raw materials across plants. Shree Cements' premium products now account for 22% of the mix from 9%, two years ago, reflecting its ongoing premiumisation push.

The top cement companies are also pursuing aggressive capacity expansion backed by sizeable capex plans. Ultratech aims to expand capacity to over 240 million tonnes per annum (MTPA) by FY28 from around 200 MTPA currently, along with guided capex of ₹8,000-10,000 crore per year. Ambuja Cement's capacity is set to increase to 119 MTPA by FY27 from 109 MTPA, with a calibrated capex plan of ₹6,000-6,500 crore. Dalmia Bharat's ongoing projects are expected to ramp up capacity towards 72-75 MTPA by FY28 from around 50 MTPA currently with a capex outlook for FY27 in the range of ₹3,200-3,400 crore.

Earnings Review



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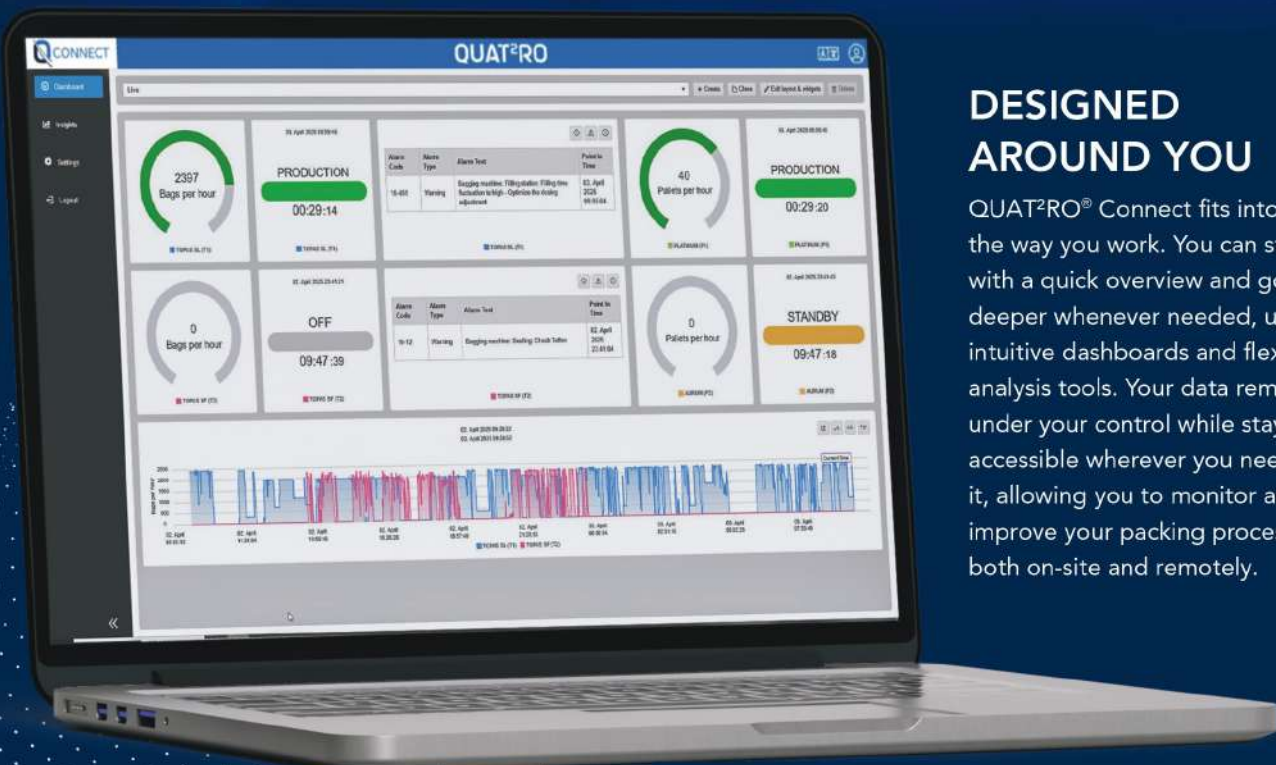
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IS 456:2000 – AMENDMENT No. 6

KEY UPDATES FOR CONSTRUCTION INDUSTRY

JUNE 2024

Bureau of Indian Standards (BIS) has issued Amendment No. 6 to IS 456:2000 bringing important changes for design, materials, durability and quality of concrete.

1



NEW CEMENT TYPES RECOGNIZED

- Composite Cement conforming to IS 16415
- Portland Calcinced Clay Limestone Cement (PCCLC) conforming to IS 18189

2



COMPOSITE CEMENT APPROVED FOR REINFORCED CONCRETE

Can be used if:

- Clinker content $\geq 45\%$
- Fly ash content $\leq 25\%$
- Minimum 28-day compressive strength ≥ 43 MPa

3



RESTRICTION ON PCCLC

PCCLC shall not be used in underground structures or structural elements in contact with ground water at locations where temperatures are predominantly below 15°C for around 6 months.

4



UPDATED MINERAL ADMIXTURE PROVISIONS

- Fly ash alone: Max 35% of total cementitious material
- GGBS alone: Max 50% of total cementitious material
- OPC + Fly ash + GGBS combination: OPC $\geq 55\%$ and Fly ash $\leq 20\%$
- Ultrafine materials (silica fume, metakaolin, ultrafine GGBS) allowed with specified limits

5



CARBONATION RISK

Concrete containing mineral admixtures (such as fly ash and GGBS) higher than that recommended may increase carbonation in case of reinforced concrete.

6



ADMIXTURE RE-DOSING

- Quantity of admixture added to a mix shall be recorded.
- Re-dosing is not normally permitted.
- Additional admixture may be added at project site with mutual agreement between producer/supplier and purchaser/user to regain workability, if required.
- Producer/supplier shall assure quality and maintain record of quantity and time of addition.

7



ENTRAINED AIR REQUIREMENT UPDATED

Nominal Maximum Size Aggregate (mm)	Entrained Air Percentage
10 and 12.5	$6 \pm 1\%$

8



CEMENT CONTENT LIMIT

Cement content excluding mineral admixtures such as fly ash and GGBS shall not be used in excess of 450 kg/m³ unless special consideration is provided (risk of cracking due to drying shrinkage, early thermal cracking or alkali-silica reaction).

9



SULPHATE RESISTANCE (TABLE 4)

For Class 3 exposure:

- PPC (IS 1489 Part 1) with $\geq 25\%$ fly ash, or
- PSC (IS 455) with $\geq 50\%$ slag give acceptable sulphate resisting properties.

10



CHLORIDE + SULPHATE EXPOSURE

Use OPC with C_3A content 5–8%, or PSC (IS 455) with $\geq 50\%$ slag, or OPC blended with $\geq 50\%$ slag.

11



MIX DESIGN UPDATES

- When PCCLC (IS 18189) is used, maximum free water-cement ratio shall be reduced by 0.05.
- Maximum free water-cement ratio:
 - 0.60 for plain concrete
 - 0.50 for reinforced concrete
- Minimum cement content (at least):

Nominal Max. Size Aggregate (mm)	10	20	40
Cement Content (kg/m³)	420	380	350

12



ASSESSMENT OF IN-SITU CONCRETE STRENGTH

- If the grade of concrete is in doubt due to poor workmanship or cube test results, compressive strength test as per Clause 17.4 shall be carried out.
- Additionally, load test (see 17.6) may be carried out, where considered necessary.

ADDITIONAL IMPORTANT CHANGES



Bond stress for fusion bonded epoxy coated reinforcing bars (IS 13620): Design bond stress shall be 80% of corresponding values for deformed bars (IS 1786).



Emphasis on quality control, documentation, durability & sustainability in concrete construction.



New standards added in IS 456 reference list (Annex A): IS 13620, IS 16415, IS 16715, IS 18189



These amendments aim to enhance durability, strength, safety and sustainable construction practices across the industry.

KEY TAKEAWAYS FOR THE INDUSTRY

- ✓ Greater acceptance of new cements and SCMs for sustainable construction.
- ✓ Clear guidelines for mix design, admixtures and durability requirements.
- ✓ Focus on long-term performance, reduced risk of deterioration and better quality control.
- ✓ Encourages innovation and responsible use of resources.

“Quality construction today ensures a stronger, safer and more sustainable tomorrow.”



Er. Tomendra Chauhan

Civil Engineer | Construction Professional

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By zeke L (Passionate Writer & Supplier of CC, USA)



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- C. Right Timing**
- D. All of Them**

A good conference does not happen just because of these points above, it is the overall design & concept which plays a very important role. The audience must learn something new, they must get value for their time & feel enlightened. If you are not doing it right, they will walk out or keep busy in the screen of their phones.

What is a good speaker ?, not just the knowledge, but the one who can get the ability to speak on stage and engage the audience. Which are the relevant topics, they are those who the people want to hear & not those which the sponsors want to talk about. What about the right timing ?, well you just cannot keep the conference on any day. the day and date have a large role to play. Keeping the event just a day before or after a larger event and in the same location does wonderfully well, because it is people centric & very convenient for all.

At DRYCOTEC, we take care of many facts and parameters. Our conference designs are always people centric. I personally ensure full engagement of our audience. Cracking a joke in the middle of the panel, is to bring the attention back into the subject. Humor and the element of fun is very important. Boring and dull presentations are a complete riot for any show. The speakers must realise that a long and comprehensively written PPT can be completely out of focus. speak your thoughts, give us feedback, we will improve & shall come back with a better, lighter & a more informative show.



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North India's Premier Micro Silica Manufacturer
State-of-the-Art Facility in Alwar, Rajasthan



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Committed to replacing traditional materials with eco-friendly alternatives without compromising performance — reducing carbon footprint, improving durability.



INNOVATION DRIVEN

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MARKET LEADER

North India's largest and only professionally managed manufacturer of GGBFS, serving India's top construction companies since 2019.

OUR VISION

"To create greener, stronger, and smarter infrastructure by providing world-class sustainable building materials that set new benchmarks in quality, performance, and environmental responsibility."

Let's Build the Future
— Sustainably

OUR JOURNEY & INFRASTRUCTURE

From startup to North India's largest GGBFS manufacturer in 6 years

- 2019** **Company Founded**
Established in Alwar, Rajasthan with vision to transform construction
- 2020** **First GGBFS Plant Operational**
3,000 MT/month capacity — North India's first professional GGBFS manufacturer
- 2022** **Multi-Product Expansion**
Added Tile Adhesives, Ready Mix Plasters, BJM, Grouts, Floor Hardeners
- 2024** **Multi-Location Presence**
Plants operational in Alwar, Bhiwadi, and Lucknow
- 2026** **Micro Silica Launch**
State-of-the-art 36,000 MT facility in Alwar — backward integrated

CURRENT CAPACITY

GGBFS Production

3,000 MT/mo

Post-Expansion

5,000 MT/mo

MICRO SILICA CAPACITY

36,000 MT

Annual Production



PRODUCT PORTFOLIO



GGBFS
Flagship Product



Arc Furnace Slag
Sustainable



Ready Mix Plaster
Convenience



Micro Silica
NEW Launch



Tile Adhesives
Ready to Use



BJM & Grouts
Specialty



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HQ + GGBFS +
Micro Silica



Bhiwadi, Rajasthan
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Plant



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Facility



36,000

MT Annual Capacity
(Micro Silica)



85% & 92%

SiO₂ Grades



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Integration**
Fully Integrated
Operations



Transforming India's Construction Industry
Through Sustainable Innovation



Quality
You Can Trust



Sustainability
We Deliver



Partnerships
We Value



Performance
We Guarantee

My Equipment Diaries : Make in India Mandatory for Machines ?

Author : Rhishikesh Chopade, Managing Director, Maruti Hydraulics Ltd. Nashik.



Who is supplying Equipment to ₹11.21 lakh Cr. in infrastructure Projects in India ?

THE RUPEE SIDE OF THE STORY : The Indian Rupee has fallen from ₹85.53 in March 2025 to over ₹95 against the USD by May 2026 — a 10%+ slide in just 12 months. Against the Chinese Yuan, it lost nearly 10% in six months. A significant slice of this dollar drain is going to China — for machines India already manufactures.

THE CONSTRUCTION EQUIPMENT : China now holds 22% of India's construction equipment market. India imports \$27 billion in Chinese machinery annually. Construction machinery parts from China hit \$16.34 billion globally in 2025 — growing 12.3% YoY — with India as one of the fastest-growing destinations. India is the world's second-largest AAC block market. We commission 15 to 20 new plants. There is \$ Outflow for AAC plant equipment to China alone:100% avoidable.

MY CRITIC'S NOTE TO THE GOVERNMENT : India has the manufacturers. India has the policy frameworks — PLI, Make in India, Atmanirbhar Bharat. India has the infrastructure boom creating the demand.

1. Mandatory BIS Certification for All Imported Const Machinery : No BIS certification = no customs clearance. Simple. WTO-compliant. Effective.

2. Bank Financing Conditionality : For all PSU bank loans and NaBFID/IIFCL-funded infrastructure projects — embed a covenant: equipment must be sourced from Indian manufacturers. Violate it, the loan is reclassified. The government is the largest lender. Use that power.

3. Close the GST Loophole : The current GST regime allows full input tax credit on imported machines Remove this credit for imported plant machinery. Retain it for Indian-made equipment.

4. Government Procurement Mandate — Enforced, Not Advisory : NHAI, PMAY, Smart Cities, PMGSY — every government-funded project must mandatorily use domestically manufactured plant and construction equipment. Not a guideline. A condition of contract. With site-level digital verification. Every machine, or excavator bought with an Indian PSU bank loan is Indian taxpayer money flowing to Chinese factories — and weakening our currency further. Make in India is not a tagline. It needs to be a procurement law.



I started
as 0.2 mm.

Nobody
noticed me.

Water found
its way in.

Steel began
to corrode.

I grew stronger
while the structure
grew weaker.

Don't wait
until I'm
beyond
repair.



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Strengthening



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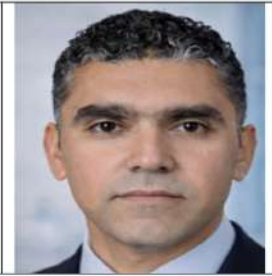


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My Material Diaries : Sand Slurry vs. Fly Ash

Author : Ahmed AbdElGhany, Quality Control Shift Leader,
Autoclaved Aerated Concrete (AAC) Company, Egypt.

In this article, the author clearly demonstrates two materials, Sand Slurry & Fly Ash used in the production of AAC blocks.



SAND SLURRY vs. FLY ASH

WHICH IS BETTER FOR AAC (SIPOREX) PRODUCTION?

The key factor is not the source of silica, but its ability to form **11Å Tobermorite** – the main mineral responsible for strength, dimensional stability and thermal insulation of AAC.

11Å Tobermorite

- High compressive strength
- Dimensional stability
- Excellent thermal insulation

1. SAND SLURRY

Quartz sand contains very high SiO_2 (typically >90%) in crystalline form (Quartz). It needs very fine grinding to become more reactive.

INSIDE THE AUTOCLAVE

- 1 Quartz gradually dissolves in the alkaline environment.
- 2 It reacts with calcium hydroxide to form C-S-H.
- 3 C-S-H transforms into well-developed Tobermorite crystals (11Å).

- ✓ Regular and well-developed Tobermorite
- ✓ High and stable compressive strength
- ✓ Low shrinkage and excellent dimensional stability
- ✓ Easier process control and consistent quality

2. FLY ASH

Fly ash contains silica in an amorphous (glassy) form, which is much more chemically reactive than quartz.

INSIDE THE AUTOCLAVE

- 1 Amorphous silica dissolves faster in the alkaline environment.
- 2 Rapid reaction with calcium hydroxide to form C-S-H quickly.
- 3 Faster formation of Tobermorite (11Å).

- ✓ Faster dissolution and reaction
- ✓ Faster C-S-H and Tobermorite formation
- ✓ Al_2O_3 in fly ash contributes to hydration and improves microstructure (when well optimized)
- ⚠ Quality varies by source – requires strict control

QUICK COMPARISON		
PARAMETER	SAND SLURRY	FLY ASH
Type of Silica	Crystalline (Quartz)	Amorphous (Glassy)
Chemical Reactivity	Lower	Higher
Dissolution Rate in Autoclave	Slower	Faster
C-S-H Formation	Gradual	Rapid
Tobermorite Formation	Uniform and well-developed	Faster but depends on ash quality
Quality Consistency	Very high and stable	Depends on source and control
Grinding Energy	Higher	Generally lower
Cost (in many regions)	Higher	Lower (if locally available)

TYPICAL FLY ASH REQUIREMENTS FOR AAC	
SiO_2	> 45%
Al_2O_3	Beneficial for hydration
LOI (Loss on Ignition)	< 8%
Residue on 0.08 mm sieve	< 25%
Consistent fineness and quality	
Free from harmful contaminants	



CONCLUSION

Neither Sand Slurry nor Fly Ash is universally superior.

The successful AAC plant is the one that achieves the best balance between:



★ In the end, AAC performance is determined not by the silica source itself, but by the plant's ability to consistently maximize **Tobermorite** formation.

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OUR PRODUCT RANGE



DOLOMITE POWDER

- ✓ High Purity
- ✓ Fine & Controlled Grading
- ✓ Consistent Quality

APPLICATIONS

- Steel & Foundry
- Glass & Ceramics
- Paints, Rubber & Plastics
- Agriculture & Fertilizers
- Construction



DOLOMITE SAND

- ✓ High Strength
- ✓ Thermal Stability
- ✓ Uniform Quality

APPLICATIONS

- Foundry
- Construction
- Ceramics
- Refractories
- Moulding Sand



CHINA CLAY (KAOLIN)

- ✓ Excellent Plasticity
- ✓ Smooth Surface Finish
- ✓ Fine Particle Dispersion

APPLICATIONS

- Ceramics
- Paper
- Paints
- Rubber
- Construction Chemicals
- Fiberglass
- Adhesives



CALCINED CHINA CLAY

- ✓ High Whiteness & Brightness
- ✓ Improved Opacity
- ✓ Enhanced Hardness

APPLICATIONS

- Paper
- Paints & Coatings
- Plastics
- Ceramics
- Refractories
- Adhesives
- Cable & Wire



WHITING POWDER

- ✓ Cost Effective Filler
- ✓ Smooth Texture
- ✓ Easy Dispersion

APPLICATIONS

- Paper
- Paints
- Construction
- Plastics
- Rubber
- Ceramics

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My News Diaries : Opportunities !!!

Large Opportunities in big cities for redevelopment. Clear Regulations & Transparencys are drawing big corporates into Real Estate !!!

Inclusion of Corporates like Adani, JSW, Shapoorji etc. will demand higher quality products & expect us to meet specificatoinas as per standards.

Big Builders Take to Redevelopment amid Land Scarcity in Large Cities

Kailash Babar

Mumbai: India's largest corporate groups are increasingly turning their attention to urban regeneration projects, signalling a shift in the country's real estate landscape where redevelopment opportunities are emerging as prized assets alongside traditional land acquisitions.

Over the last few months, companies linked to Reliance Industries, Adani Group, JSW Group, Shapoorji Pallonji Group and Lodha Developers have aggressively pursued some of Mumbai's biggest redevelopment opportunities, competing for projects involving ageing housing colonies, slum rehabilitation schemes and large urban renewal programmes. The trend reflects a changing reality in India's most land-constrained cities, especially Mumbai, said industry experts. With large greenfield parcels becoming scarce and expensive, developers are viewing redevelopment

Old Is Gold

Urban land scarcity is reshaping real estate strategies

Clear regulations, transparency are drawing big corporates into real estate

Redevelopment offers long-term project pipelines in established urban areas

Redevelopment emerging as a prized alternative to traditional land acquisition



ment projects as a viable route to build long-term project pipelines in established urban locations.

"Large-scale redevelopment is becoming the preferred growth avenue for well-capitalised corporate groups because it offers access to prime urban locations where acquiring sizeable greenfield land parcels is no longer feasible," Knight Frank India chairman and managing director Shishir Bajjal said. "While these projects demand significant capital

and execution capabilities, they also create long-term development pipelines in established micro-markets with relatively lower market risk," he said.

While redevelopment is the focus in cities like Mumbai, big conglomerates are developing greenfield projects as well. The Adani Group's airport subsidiary last week announced a 655-acre, ₹20,000 crore project to develop airport cities close to six of the airports it owns.

New groups are also entering the sector where conglomerates like Godrej and Larsen & Toubro are already established players. The Vedanta Group last week announced its entry into real estate, expanding its business portfolio beyond metals, mining and energy into property development. It has yet to bid for or announce any projects.

Industry executives cited clear regulations, greater transparency, consolidation and the potential for long-term returns among reasons for the big business houses entering the sector.

"The growing foray of large corporates and conglomerates into Indian real estate is a clear indicator that the sector is moving from a fragmented, promoter-led market to a more institutionalised, governance-first industry," said Niranjan Hiranandani chairman of real estate industry body Naredco.

FOR FULL REPORT, GO TO
www.economicstimes.com

My Tile Adhesive International Diaries : Why Heat Aging Matters for Tile Adhesive

Kumaravelu Subramanian
(Senior R&D engineer at SOPREMA MWM LLC – DUBAI)



Many tile adhesive manufacturers focus on initial bond strength. But real-world performance is tested long after installation. In many regions such as India, the Middle East, Africa and Southeast Asia, tile surfaces can easily reach temperatures of 50–70°C under direct sunlight. The challenge is not whether the tile adhesive can hold the tile today. The challenge is whether it can maintain its bond strength after years of thermal stress.

A tile adhesive with excellent initial performance may gradually lose adhesion if it cannot absorb expansion and contraction caused by temperature changes. This is where polymer modification becomes critical. Research has shown that increasing RDP dosage significantly improves heat-aging bond strength in cement-based tile adhesives. The improvement becomes especially noticeable after thermal exposure because the polymer network helps distribute stress throughout the mortar structure rather than concentrating it at the bonding interface.

Why does this matter? : Because thermal movement occurs every day:

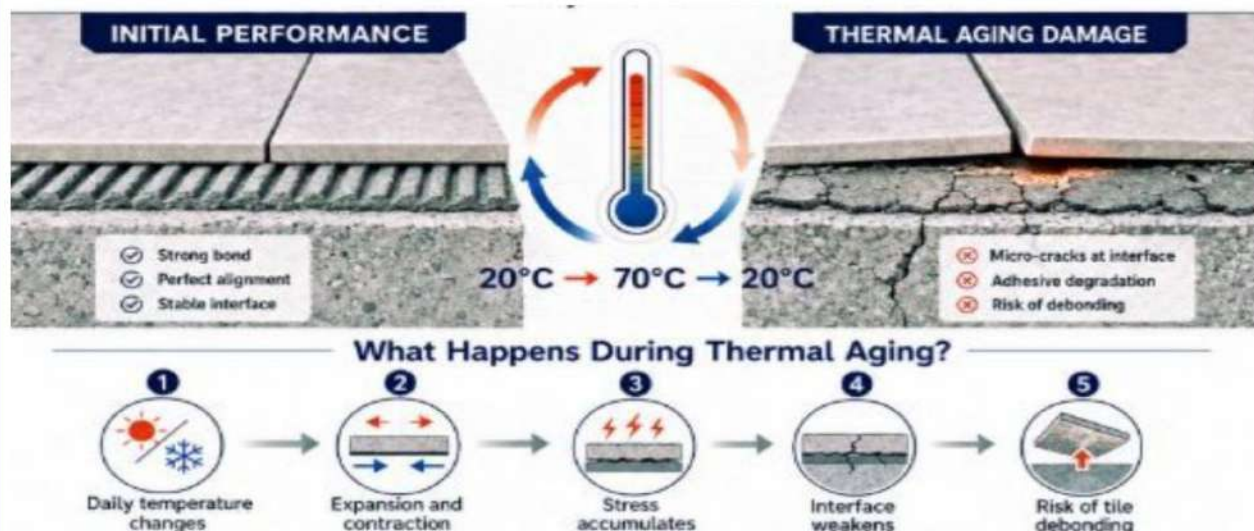
 Daytime expansion	 Nighttime contraction	 Continuous stress cycles
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Over time, these cycles can weaken the adhesive interface and lead to debonding. A properly designed polymer-modified tile adhesive can:

- ✓ Improve thermal aging resistance
- ✓ Enhance flexibility
- ✓ Reduce stress concentration
- ✓ Improve long-term adhesion
- ✓ Extend service life

Strong initial bond strength is important. But long-term durability under temperature fluctuations is what keeps tiles in place for years. When evaluating tile adhesive performance, heat-aging resistance should never be overlooked. The real durability test begins after installation.

How do you evaluate thermal aging performance in your tile adhesive formulations?





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Founded in 1987, TPI Polene is a major producer of Cement, Petrochemicals and Dry Mortars, meeting international standards, ISO, ASTM, and EU certifications. The Company has reached a turnover of 1 Billion USD for the year 2024

The company is using their RDP for their own Dry Mortar Products, which are market leaders in Asia. The excess production is on sale for other manufacturers across the world.

Our Product POLENE® EVP603

It's a white VAE Re-dispersible powder manufactured from Vinyl Acetate - Ethylene copolymer emulsion via a spray dry process. Its readily re-dispersible in water and forms stable emulsion.

Improves adhesion, flexural strength, workability of modified compounds. It is compatible with mortar additives, used to achieve special processing characteristics. It contains fine mineral filler as anti-caking agent and filler. It is free of solvents & plasticizers.

Product Application of POLENE® EVP603

Used for blending with inorganic binders such as cement, gypsum or used as a sole binder for the construction adhesive applications. Typical application : Tile adhesives & Wall putty.

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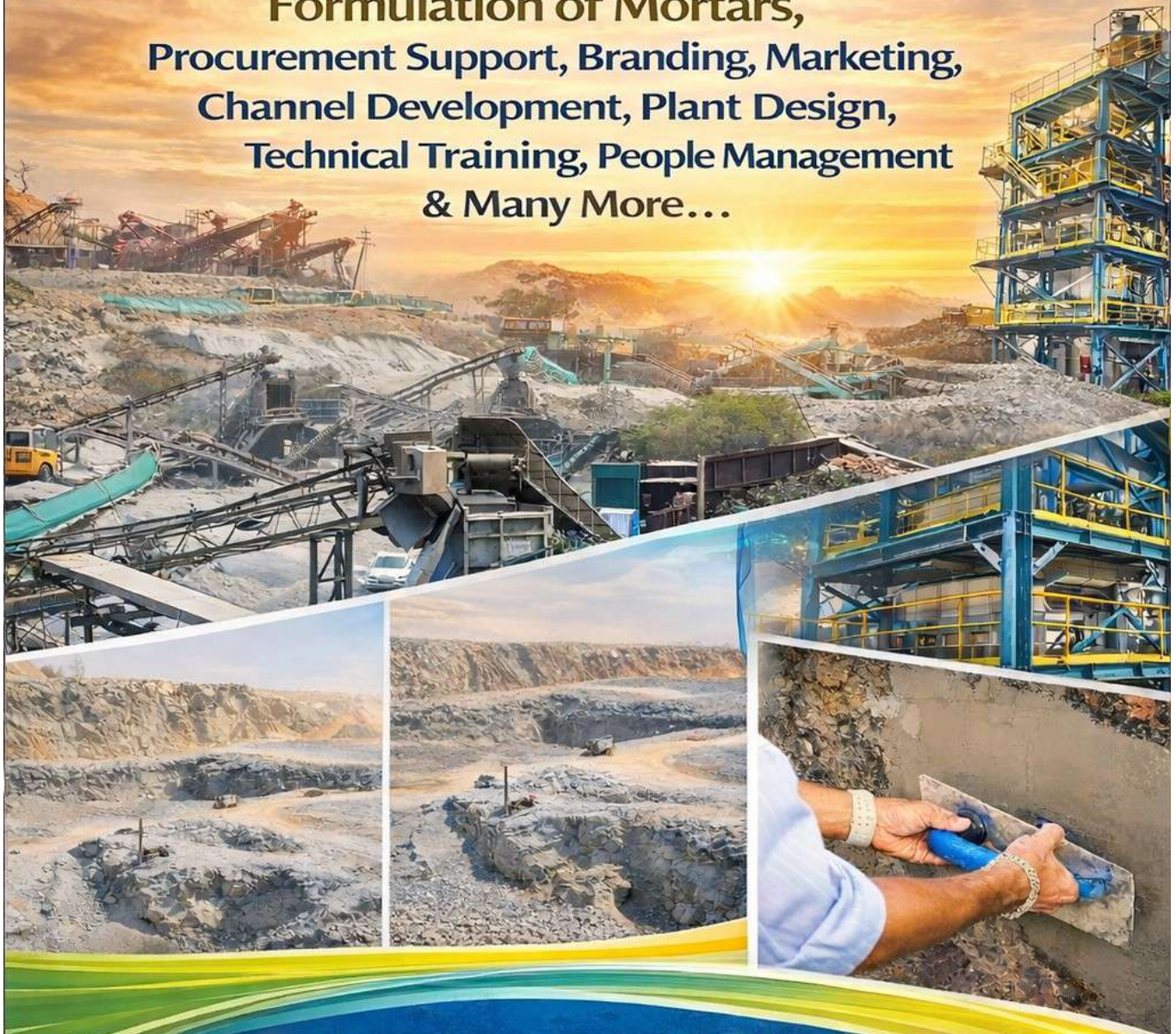
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