



better tomorrow

NON FIRED BRICKS FOR OUR GREEN WORLD



100% Safe

An investment where meets
social benefits & profits.



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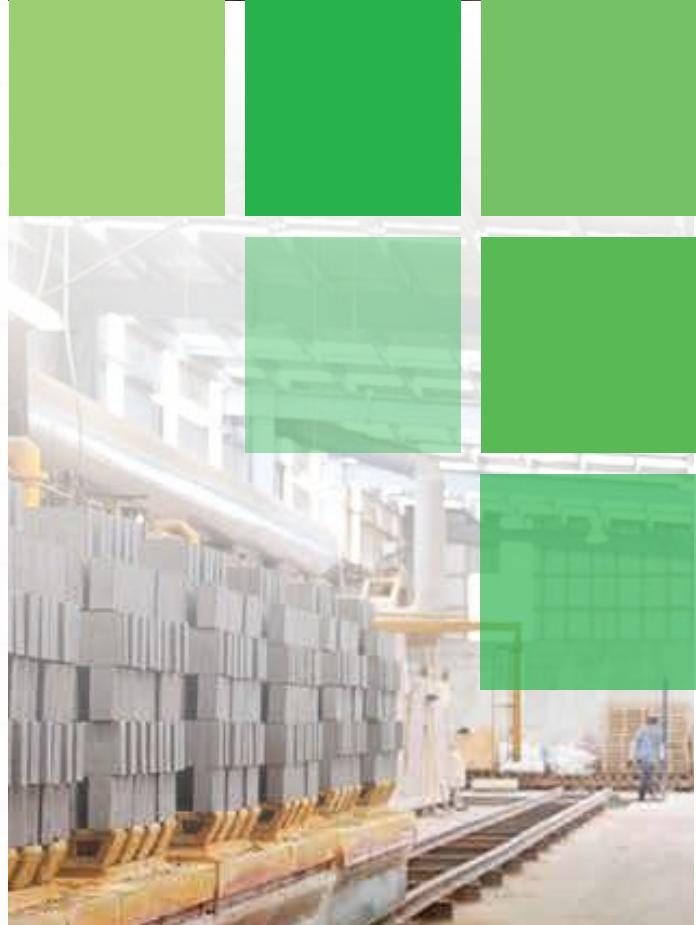
INTRODUCTION PROFILE

Company Name: Japan Bangladesh Ideas and Technologies Limited (JBITL)

Industry: Sustainable construction and eco-friendly products.

VISION: Our vision is to inspire change, promote sustainability, and make a positive impact to the society.

Mission Statement: JBITL is committed to making a positive impact on the Bangladeshi construction industry by introducing innovative, sustainable, and environmentally responsible products that can help to create a more sustainable and prosperous future for the country.



Overview: JBITL is a Bangladeshi company that specializes in promoting eco-friendly and sustainable products designed to replace traditional brickmaking practices. The company focuses on promoting these products in Bangladesh, where the traditional brickmaking industry has been a significant source of pollution and environmental damage. By introducing sustainable and environmentally responsible bricks to the Bangladeshi market, JBITL is helping to promote a more sustainable and responsible construction industry while minimizing the impact of brickmaking on the local environment. The company collaborates with Japanese manufacturers to promote eco-friendly products and technologies in Bangladesh.

Products: JBITL offers ECO 5000 for concrete Brick technology and FLAT PLAG JBITL for dampproof roof and wall. In addition to eco-friendly bricks, JBITL also offers a range of sustainable construction materials such as insulation, roofing materials, and flooring options. These materials are designed to be both cost-effective and environmentally responsible, helping to create a more sustainable and prosperous future for Bangladesh.

Consulting services: JBITL also offers consulting services to help construction companies and developers make the switch to more sustainable and eco-friendly construction practices. JBITL team of experts can provide guidance on everything from raw material selection to installation and maintenance, helping companies to make the transition to a responsible construction industry.

ECO 5000 PRODUCT DESCRIPTION

ECO-5000 is a unique chemical treatment specially formulated to improve the durability of reinforced concrete structures exposed to harsh conditions. This additive is added to the concrete mix at the time of batching to provide a range of features and benefits.

COMPANY TRADEMARK

As proof that it is a non-fired brick using ECO 5000.



ECO5000 Non Fired Bricks



EIKEN Co.,Ltd. Made in Japan

FEATURES & BENEFITS

ECO-5000 is a powder additive composed of Portland cement and active proprietary chemicals. These chemicals react with the moisture in fresh concrete and the by-products of cement hydration to catalyze a reaction that generates a non-soluble crystalline formation throughout the concrete. This formation prevents penetration of harmful substances into the concrete and significantly reduces water permeability, making it highly resistant to environmental factors such as marine environments, acid and sulphate attacks, and chloride penetration. Experimental investigations conducted in different countries have demonstrated that ECO-5000 enhances the durability of concrete exposed to aggressive environmental conditions. ECO-5000 is cost-efficient, non-toxic, allows concrete to breathe and is self-healing, with the ability to repair static hairline cracks up to 0.5 mm. This additive is added to the concrete at the time of batching, making it flexible in construction scheduling and not subject to climatic restraints.

ADVANTAGES OF ECO 5000

- Easy to apply
- Cost-efficient
- Non-toxic with no VOCs
- Allows concrete to breathe
- Provides permanent results
- Becomes an integral part of the concrete
- Increases flexibility in construction scheduling
- Addresses a wide range of environmental issues
- Highly resistant to sulphate, acid, and chloride attack
- Enhances the properties of fresh and hardened concrete
- Has the ability to self-heal static hairline cracks up to 0.5 mm
- Significantly reduces the water permeability coefficient of the concrete
- Highly resistant to chemical attack within a pH range of 3 to 11 in constant contact
- Added to the concrete at the time of batching, making it immune to climatic restraints



Note that while adding ECO-5000 products in powder form on site is not typically recommended, there may be situations where it is necessary. In these cases, it is recommended to add ECO-5000 in slurry form to the truck (e.g., 3 parts powder to 2 parts water by volume) to ensure proper dispersal. The concrete should then be mixed on high speed for at least 5 minutes or until it is thoroughly dispersed.

Water required for the ECO-5000 should be accounted for in the mix design. It is important to note that the use of ECO-5000 does not eliminate the need for proper design of crack control, construction joint detailing, proper placement, consolidation, and curing of the concrete.

PACKAGING INFO

ECO 5000 is available in 15 kg and 20 kg buckets. For large projects, customised packaging is available to meet specific needs.

Storage:

ECO 5000 products should be stored in a dry environment with a minimum temperature of 15°C. Under these proper conditions, the shelf life of the product is one year.

Dosage Rates:

For optimal results, the dosage rate of ECO 5000 is recommended to be between 0.2% to 0.8% by weight of cementitious content. Please consult with ECO 5000's Technical Services Department or your local ECO 5000 Technical Services Representative for assistance in determining the appropriate dosage rate for your specific project requirements, including enhanced chemical resistance and meeting the specific conditions of your project.

CONCLUSION

ECO-5000 is a versatile product recommended for a wide range of applications. Its exceptional waterproofing and durability properties make it ideal for use in various structures, including marine structures, water and wastewater treatment plants, sewage systems, secondary containment structures, chemical processing facilities, underground vaults, reservoirs, dams, irrigation structures, power generating stations, foundations, basements, parking structures, bridges, tunnels, and subway systems. ECO-5000 is also suitable for pre-stressed and pre-cast components, shotcrete installations, and swimming pools and aquatic facilities. With its broad range of applications, ECO-5000 offers a sustainable and long-lasting solution for any project that requires superior waterproofing and durability performance.



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