



InnoChem
Smart Solutions, Strong Foundations

1ST FLOOR, GALA NUMBER 119, VAPI CO-OP INDL SOCIETY, GIDC, PLOT NUMBER 99, VAPI, VALSAD 396195.

InnoChem Floor Hardener

HIGH STRENGTH. DURABLE. RELIABLE.

1.DESRIPTION

InnoChem Floor Hardener is a premium, non-metallic surface hardener formulated from high-quality Ordinary Portland Cement, carefully selected and graded washed aggregates, polymers, and performance-enhancing additives. It is designed for use on freshly laid concrete floors in residential, commercial, and industrial spaces, providing a dense, abrasion-resistant, and long-lasting monolithic surface.

When applied correctly, it significantly enhances the surface strength, impact resistance, and durability of concrete floors—making them capable of withstanding heavy-duty traffic and mechanical wear. InnoChem Floor Hardener ensures a smooth, dust-free, and maintenance-friendly surface that retains its appearance and performance over time.

2. Areas of Application –

InnoChem Floor Hardener (Non-Metallic) is designed for industrial floors, warehouses, manufacturing units, and workshops that demand superior abrasion and impact resistance. It is equally effective in logistics hubs, parking zones, and loading bays subjected to heavy vehicular traffic. The product also performs exceptionally in power stations, food and pharmaceutical facilities, and commercial spaces requiring durable, hygienic, and dust-free floors.

Its versatility extends to shopping malls, showrooms, public buildings, chemical and refinery plants, and heavy engineering industries, providing a long-lasting, seamless, and high-performance surface across a wide range of applications.



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3. Features & Benefits –

Ease of Application – The product is supplied as a pre-mixed powder, enabling fast and simple “dry-shake” application and trowelling directly onto freshly placed concrete.

Compressive Strength – With superior compressive strength, the treated surface dramatically improves the load-bearing capacity of the floor and significantly boosts wear-resistance performance.

Abrasion & Impact Resistance – Engineered for rigorous service, the surface developed by the hardener delivers exceptional resistance to abrasion and impact, especially under continual vehicular or forklift traffic. Some independent data show multi-fold improvement over untreated concrete.

Uniform Monolithic Bonding – The material integrates seamlessly with the fresh concrete slab to form a monolithic surface layer that minimises joint, segregation and pothole formation, contributing to long-term structural continuity.

Corrosion Resistance – As a non-metallic aggregate formulation, the system avoids rusting of embedded steel or ferrous particles, eliminating the risk of corrosion-induced deterioration at the floor surface.

Low Water Absorption / Permeability – By forming a dense, low-porosity substrate, the treated surface offers very low water absorption, limiting ingress of oils, chemicals, water and other aggressive agents.

Chemical, Stain & Oil Resistance – Many modern formulations enhance resistance to oil, grease, chemical spillage and other industrial contaminants — an essential benefit for workshops, manufacturing and food/chemical plants.



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4. Method of Application –

1. Surface Preparation

The base concrete must be of a proper mix design with a uniform consistency and free from segregation, bleeding, or excessive laitance. Ensure that no layer of fine cement paste has floated to the surface. The concrete should be placed, compacted, and leveled properly before applying the floor hardener.

2. Application

InnoChem Floor Hardener (Non-Metallic) should be applied uniformly at the recommended rate, depending on the expected service conditions (light, medium, or heavy duty). Once the concrete is laid, divide the surface into manageable bays for systematic application. The ideal time to apply the floor hardener is when the base concrete has stiffened sufficiently to leave a light footprint (approximately 3–6 mm deep) and still maintains a moist sheen — typically **30 to 40 minutes after placing** at an ambient temperature of 35–40°C.

- **First Application (50% of total dosage):**
Evenly dry-shake approximately half the total quantity of InnoChem Floor Hardener over the freshly placed concrete. Allow the material to darken uniformly as it absorbs moisture from the base. Once it does, lightly float the surface using a wooden float or mechanical power float. Avoid overworking the surface at this stage.
- **Second Application (Remaining 50%):**
Apply the remaining quantity at right angles to the first layer to ensure uniform coverage. Once the second layer has absorbed moisture, repeat the floating process to achieve a consistent and dense finish.

3. Cleaning

All tools and equipment should be cleaned immediately after use with clean water or a mild soap solution before the material hardens.



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4. TECHNICAL INFORMATION

COLOUR	GREY
ABRASSION RESISTANCE	Approx. 2.7 mm
COMPRESSIVE STRENGTH	60 N/ m ²
WATER ABSORPTION	< 10%
RESISTANCE TO WEAR	Pass

Packing Available in **25 kg bags**.

Coverage

- **Light Duty Floors:** 2 kg/m²
- **Medium Duty Floors:** 3–5 kg/m²
- **Heavy Duty Floors:** up to 7 kg/m²

Coverage may vary depending on site conditions, method of application, and surface finish require



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STORAGE

InnoChem Floor Hardener (Non-Metallic) has a **shelf life of 12 months** from the date of manufacture when stored in its **original, unopened packaging** in a **cool, dry, and well-ventilated area**. Protect from direct sunlight, moisture, and extreme temperatures.

HEALTH AND SAFETY

This product contains cement and other alkaline materials that may cause irritation when in contact with skin or eyes, or if inhaled as dust. Appropriate personal protective equipment (PPE) such as gloves, goggles, and masks should be worn during handling and application.

- **Skin Contact:** Wash affected area immediately with soap and clean water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse eyes thoroughly with plenty of clean water and seek medical advice if irritation continues.
- **Inhalation:** Move the affected person to fresh air. If breathing is difficult, provide artificial respiration and obtain medical attention immediately.
- **Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical help immediately.

**Product information given by company is shared in good faith for better understating of the product. It is meant to be used as a general guideline. There is no guarantee or warrantee undertaken if the output varies. These things depend on the applicator, the type of surface and other on-site related factors. We strongly recommend that the user does trials prior to full scale usage. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of product.