HIND EP COAT 236

TWO COMPONENTS HIGH BUILD GLASS FLAKE REINFORCED CORROSION & ABRASION RESISTANCE EPOXY COATING FOR STEEL & CONCRETE

HINDCON CHEMICALS LTD.
STRENGTH UPON STRENGTH

DESCRIPTION

Hind EP Coat 236 is a two-component solvent free high-performance epox based coating system incorporated with specifically treated surface tolerant glass flakes reinforcement for protection of concrete and metal surfaces against corrosion, abrasion and chemical resistance, due to adverse effect of wide range of chemicals, gases and weather conditions. It exhibits excellent abrasion and impact resistance, which makes it ideal coating system for surface protection for metal and concrete structures continuously immersed in to water.

USES

Hind EP Coat 236 has a wide range of application and is perfectly suitable protective and life enhancing coating for all types of metal and concrete structures continuously exposed to water and other mild chemicals in plants, machinery, above & below ground pipes lines, onshore & offshore platforms, tanks, vessels, valves, pumps and other structures subject to corrosion. It also offers excellent saline atmosphere resistance.

ADVANTAGES

- Excellent adhesion to the concrete & steel surfaces.
- Protect surface from corrosion and abrasion
- Excellent corrosion & chemical resistance.
- Designed as life enhancing coating for coastal and industrially polluted environment.
- High performance high build epoxy coating for protection of steel in aggressive conditions.
- Excellent resistance to moisture and saline conditions.
- Makes concrete surface impervious.
- Prevents coated surfaces from cracking.
- Excellent resistance to water and splash of mild chemicals.
- Suitable for touching up of weld seams and damages to epoxy coatings during construction.

PROPERTIES

Aspect	Two pack system designed as Comp. A (Resin) Comp. B (Hardener)
Mixing Ratio	3:1 (by weight) Component A(Resin): Component B (Hardener)
Pot Life	60 minutes at 25°C and is also depended on Relative Humiduty
DFT Recommended	200 to 400 micron per coat. Avg recommended DFT 200 micron per coat for long life.
Drying Time	Touch Dry - 3 hours Hard Dry 24 hours
Coverage	3-4 Sq. Mtr @average 200-250-micron DFT.
Application procedure	Spray, Brush or Roller

PERFORMANCE DATA:

Abrasion resistance	:	Excellent
Adhesion	:	Excellent
Flexibility	:	Moderate
Impact resistance	:	Excellent
Humidity Resistance	:	Excellent

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CHEMICAL RESISTANCE:

Water	:	Excellent
Alkalis	:	Excellent
Inorganic Acids	:	Excellent
Organic Acids	:	Excellent
Organic Solvents	:	Excellent

DESCRIPTION OF TEST RESULTS:

Properties	Parameters/Standards	Test Results
Adhesion	**ASTM D 3359 Cross Cut Tape test**	Excellent
Impact Resistance	**ASTM D 2794 Gardiner Impact, 7 Day Air Dry @25^{o}C**	Excellent
Flexibility	**ASTM D 522 Conical Mandrel Apparatus**	Good
Exterior Durability	**ASTM G 53 Accelerated aging via exposure to Fluorescent Ultraviolet and Condensation**	No Effect
Salt Fog Resistance	**ASTM B 117 Salt Spray Test 500hrs**	No Effect
Immersion Ambient 1500 hrs		No Effect

APPLICATION

Surface Preparation

The surface to be coated must be dimensionally stable, dry, clean and free of oil, grease, release agents, curing compounds and other foreign materials.

For Steel Surface:

All surfaces shall be free of loose rust, mill scale and contaminants such as oil, grease, dirt and salts. Before any surface preparation is attempted, oil and grease must be removed by employing SSPC-SP1 solvent cleaning. Use commercial Blast cleaning to SA 21$^{1}/_{2}$ grade SIS 05-5900 to remove mill scale, rust and other contaminants and leave a roughened surface. On absolutely cleaned and dry surface **Hind ERS 21 P** epoxy primer is to be applied. After air curing for 24 hours **Hind EP Coat 236** is to be applied

For Concrete Surface:

Ensure perfect curing of concrete surface. measure moisture content of and ensure below 5%,. force drying is not recommended. Ensure surface free of all types on loose layers particles, defects, damages and any other contaminations. On absolutely cleaned and dry surface **Hind ERS 21 P** epoxy primer is to be applied. After air curing for 24 hours Hind EP Coat 236 is to be applied.

Over Coating Time Period:

Subsequent coats should be applied just before touch dry. Maximum over coating period would be **4-5 days** after previous.

Mixing

Mix **1 part** by Wt. of **Component B (Hardener)** with **3 parts** by Wt of **Component A (Resin)**. i.e. **Mixing Ratio: Component A: Component B = 3:1 (by wt)**. Mixing is to be done gently at least for 2-3 minutes until an uniform color is obtained without any steak using a slow speed drill and paddle (200 RPM) so as to avoid any entrapped air.

Allow the mix to settle for 5 minutes so that if any air in entrapped during the mixing escapes out.

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By Brush	:	Use stiff quality bristles for coating. Trim it to 1" nap.
By Roller	:	Use good quality 1/8" nap.
By Plural Air Spray Air	:	Use .023 -032 tip, 3,000 3,500 psi, Heat **Resin** to **70°C** and Hardener to **50°C**
By Airless Spray	:	Not Recommended.

Application Temperature

The material has to be kept at temperature ranging between **13°C** to **35°C**. It has to be ensured that the substrate temperature is maintained in between **10°C** to **40°C**. The difference of temperature of the substrate and coating should at no point be excess of **5°C**.

Curing Time

If applied by Brush or Roller, the time for recoating will have to be done within 6 to 8 hours at **25°C**. While spraying, recoating has to be done within 5 to 8 hours at **25°C**. Full curing has to be done for 72 hours within **35-45°C**. Accelerated Curing if required can be done for 12 hours at **66°C**.

Cleaning of Tools

Tools and equipment contaminated with liquid can be cleaned with Thinner GF. Cleaning should be done before it starts to gel or harden.

SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 35°C (Max.).

PACKING

Available in **4 Kg Kit (Comp A & Comp B)** or as required

HANDLING PRECAUTION

Hind EP Coat 236 is non-toxic and ingestion is to be avoided. Use gloves, googles and barrier cream. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

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