

PU ANTI-SKID COATING SYSTEM

PRIMER + BASE COAT + SAND BROADCASTING + TOPCOAT

HIND ERS PRIME + HIND ERS UL (1mm) + Sand Broadcasting + PU DURACOAT 6732

APPLICATION INSTRUCTIONS

STEP - 1

SURFACE PREPARATION

1. The concrete substrate must be fully cured, structurally sound, dry, & free of dust, oil, grease, laitance, loose particles, curing compounds, & other contaminants.
2. Surface preparation shall be carried out mechanically by diamond grinding, shot blasting, or scarifying as required, followed by thorough vacuum cleaning.
3. Any cracks, potholes, honeycombs, or surface irregularities shall be repaired using a suitable epoxy or cementitious repair mortar, & the repairs shall be allowed to cure completely before commencement of coating application.
4. The surface moisture content should preferably be below 5% prior to coating application.

STEP - 2

PRIMING - HIND ERS PRIME

Application Procedure:

1. Mix Component - A (Resin) & Component - B (Hardener) in a 1:1 ratio by volume. Use a mechanical stirrer at 300 - 350 RPM for 2 - 5 minutes until a uniform, homogeneous mix is obtained.
2. Apply the mixed Hind ERS Prime uniformly on the well - prepared, dry surface using a standard paint brush, a good - quality lamb's wool roller, or airless spray equipment.
3. Ensure continuous film formation & proper material consumption @ 150 - 200 gms / Sq. Mtr (DFT 200 microns).
4. Allow the primer to penetrate the substrate thoroughly to enhance bonding between the concrete & the coating system.
5. Curing before next coat: Allow a minimum of 6 hours for tack-free. Preferably, allow 24 hours before applying the base coat.
6. Clean all tools immediately after use with Xylene, Toluene, or a suitable solvent.

STEP - 3

BASE COAT - HIND ERS UL (1MM THICK)

Mixing Procedure:

1. Mix Component - B (Hardener) with Component - A (Resin) first.
2. Add Component - C (Special Filler) & mix again thoroughly.
3. Mix for 5-7 minutes using a drill & paddle at a maximum 500 RPM until a smooth, homogeneous mix is achieved.

Application Procedure:

1. Primer curing: Ensure Hind ERS Prime coat is tack-free (min. 6 hrs, preferably 24 hrs) before applying the base coat.
2. Pour & spread the mixed Hind ERS UL evenly on the primed surface in a single coat to achieve a uniform 1mm thickness. The material is self-leveling - allow it to self-level uniformly.
3. Ensure the applied coat is smooth & free from voids or bubbles.
4. Curing: Allow the base coat to cure for at least 24 hours. Do not allow it to cure completely hard - sand must be broadcast while the surface is still tacky.
6. Clean all tools immediately after use with a suitable solvent.

STEP - 4

SAND BROADCASTING ON BASE COAT

1. While the base coat (Hind ERS UL) is still tacky, uniformly broadcast clean, dry quartz or silica sand aggregates over the entire surface by hand or with a mechanical spreader.
2. Ensure even, consistent coverage across the entire surface to create a uniform anti - skid texture.
3. Apply a sufficient quantity of sand to fully saturate the tacky surface - the sand should be visible & standing proud of the base coat film.
4. Allow the base coat with the broadcast sand to cure fully for a minimum of 24 hours.
5. After curing, remove all loose & excess sand by vacuum cleaning or stiff brushing to ensure a clean, firmly bonded aggregate surface before topcoat application.

STEP - 5

TOPCOAT - PU DURACOAT 6732 (500-700 Microns)

Mixing Procedure:

1. Mix Component-A (Resin + Color Paste) & Component-B (Hardener) in the ratio 100:20 by weight using a slow-speed mechanical stirrer until a uniform, homogeneous mixture is obtained.
2. Use only the pre-packed quantities as supplied. Ensure complete mixing for 2-3 minutes before use.
3. Pot life is approximately 30-60 minutes at 30°C. Use the mixed material within the pot life.

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Application Procedure:

1. Ensure the base coat & sand - broadcast surface are fully cured, clean, & free of all loose aggregates before applying the topcoat.
2. Apply the mixed PU Duracoat 6732 uniformly over the prepared anti - skid surface using roller equipment to properly encapsulate & seal the aggregates.
3. Achieve a Dry Film Thickness (DFT) of 500 - 700 microns.
4. Protect the coated surface from dust, moisture, rain, & traffic during the curing period.
5. **Curing:** Light foot traffic may be allowed after approximately 24 hours. Full mechanical & chemical curing requires 5 - 7 days, depending on ambient temperature & humidity.
6. Clean all tools & equipment immediately after use with a suitable solvent.

IMPORTANT NOTES:

1. Application shall be carried out under suitable environmental conditions, preferably between 10°C & 35°C with relative humidity below 85%.
2. Ensure proper ventilation & adherence to all recommended safety precautions, including the use of gloves, goggles, masks, & protective clothing.
3. UV-resistant coating to be applied separately as an additional topcoat for outdoor or exposed applications.
4. The actual color on the floor may vary slightly from standard shades due to the anti-skid finish & the product's final curing.

MATERIAL COVERAGE SUMMARY

Product / Layer	Pack Size	Thickness	Coverage
Hind ERS Prime (Primer)	2 Kg / 4 Kg / 20 Kg	200 Microns DFT	150-200 gm / Sq. Mtr
Hind ERS UL (Base Coat)	6 Kg / 24 Kg	1.0 mm (1 Coat)	1.5 Kg / Sq. Mtr
Sand Broadcasting	As Required	Anti-Skid Layer	As Required
PU Duracoat 6732 (TopCoat)	12 Kg / 24 Kg	500-700 Microns DFT	700 gm / Sq. Mtr
Total System Thickness	—	~1.5 - 1.7mm	—

IMPORTANT NOTE – SCRATCH COAT / PUTTY COAT:

The application of Epoxy & PU flooring & coatings is highly sensitive to surface conditions. Depending on the substrate porosity, texture, & site conditions, a Scratch Coat/Putty Coat may be necessary over the primer or underlayment surface before applying the final top coat.

A Scratch Coat / Putty Coat is a thin additional layer of the topcoat material, applied to seal any residual surface irregularities, micro-pores, or voids. This step ensures a superior, uniform finish on the final coat by significantly reducing the risk of pinholes, surface defects, & uneven appearance in the cured system.

The necessity of a Scratch Coat / Putty Coat is to be assessed by the applicator based on the actual site surface conditions prior to application of the final topcoat.

