

HIND COAT LR 9415

LIQUID RUBBER BASED WATERPROOF MEMBRANE PERFORMANCE
PROTECTIVE COATING



DESCRIPTION

Hind Coat LR 9415 is roller applied liquid rubber based waterproofing membrane on application forms a waterproof membrane when used under thin and thick bed installation of ceramic tile, stone and other finishes conforming to **ANSI A 118.4 & EN 14891** with classification of **DMP**.

USES

Hind Coat LR 9415 is recommended to be used for residential and commercial floor & wall installations like, Kitchens, Bathrooms, Gang showers and Balconies. It can also be used as crack suppression membrane along with **Hind Fiber Glass** reinforcing fabric over hairline nonstructural cracks up to 3mm for interior and exterior applications.

Substrates where Hind Coat LR 9415 can be applied

Concrete, Gypsum Wall board, Cement Backer Board^{***}, Cement Plaster, Cement Terrazzo, Exterior Grade Plywood, Cement Mortar Beds, Concrete Masonry and Brick Masonry.

^{***}Cement Backer Board manufacturer to be consulted if they have any specifics installation recommendations and also to verify whether it is acceptable for exterior use.

* For interior use follow TNCA guidelines/Methods: F200, RH 111, RH 122, F18.

ADVANTAGES

- Can be cleaned with water when it is applied fresh.
- Fast and easy paint like application.
- Non-flammable.
- Anti-fracture protection of up to 3mm over shrinkable and non-structural cracks,
- Brick, Tile and Stone can be installed directly on to the membrane.
- Proven history for successful application.

APPLICATION

Surface over which the coating is to be applied should be structurally sound, lightly steel troweled to a flat, uniform surface free from dirt, oil grease, old peeling paint concrete sealers and curing compounds and temperature of the substrates should be between 8°C and 32°C. Rough and uneven surface should be made smooth so that a wood float or better finish surface is obtained. Gypsum, , asphalt based products should not be used for smoothing of the surface. Dry, dusty concrete slab or masonry should be properly cleaned, dampened and free from running water. It is always advisable that application are done over damp/moist surface. Newly laid concrete surface to be water cured for 14 days prior to application of **Hind Coat LR 9415**. All slabs should be plumb and true to within 6mm in 3 meters.

Before installation, the deflection under all live, dead and impact loads of interior plywood floor does not cross the industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L = span length. should be verified.

For Construction of Interior plywood floors:

Sub Floor:

15mm thick exterior grade plywood either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400 mm o.c maximum, fasten plywood 150mm o.c along sheet ends and 200 mm o.c along intermediate

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supports with 8d ring-shank, coated or hot dipped galvanized nails (or screws), allow 3mm between sheet ends and 6mm between sheets edges, all sheet ends must be supported by a framing member, glue sheets to joints with construction adhesive.

Underlayment:

15mm thick exterior grade plywood fastened 150mm o.c along sheet ends and 200 mm o.c in the panel field (both directions) with 8d ring-shank, coated or hot dipped galvanized nails (or screws): allow 3mm to 6mm between sheet and 6mm between sheet edges and any abutting surfaces, offset underlayment joints from joint in subfloor and stagger joints between sheet edges: glue underlayment to subfloor with construction adhesive.

It should not be bonded to particle board, luan, Masonite or hardwood surfaces. Pipe gaps when there is pipe penetrations or similar details with compressible backer rod or suitable flexible sealant. Drains and pipes to be flashed with to be **Hind Coat LR 9415**. Waterproof membrane and reinforced with **Hind Fiber Glass**. Tile installation around penetrations to be sealed with suitable urethane / silicone sealant.

Mixing:

Hind Coat RL is supplied in ready to use pack only it has to be properly stirred and applied.

Waterproof Membrane

At first all coves and corners are to be treat if it exists. Double layer of **Hind Fiber Glass** fabric and **Hind Coat LR 9415** is required to be applied for all coves, corners ,board joints and changes in plane. **Hind Coat LR 9415** is easily applied with brush or roller The coating is to be applied as a liberal coat for 100mm each side of corner or cove. 100mm wide fabric in half and embed in the wet liquid. The fabric is pressed firmly with brush or roller so that liquid is gets bleed through. A top coat of **Hind Coat LR 9415** waterproof membrane is applied on the entire surface to be waterproofed for a thickness (0.5-0.75 mm wet) covering the fabric reinforced areas. Allow it to dry for 2-3 hours when the membrane is dry to be touched with hand, second coat of **Hind Coat LR 9415** is spread for a thickness (0.5-0.75 mm wet) over the previously coated area. After a period of 3-4 hours when it gets dry tile can be installed. (**It is to be noted that the thickness is checked with a wet film thickness gauge and thin area is recoated to ensure even thickness of the surface coated.**)

For Crack Suppression

Shrinkage hairline cracks up to 3mm in concrete and cement terrazzo is treated by applying a coat of **Hind Coat LR 9415** approximately making a band of 100mm width middling the crack. 150mm wide reinforcing fabric is imbedded and pressed firmly by brush/roller so that the coating bleeds through the fabric and come on top. After this operation gets completed, a top coat of **Hind Coat R** is applied as a waterproofing membrane and allowed to get dry. Tile can be installed over the coated surface when the membrane gets touch dry.

Cleaning of Tools: All tools used for application, to be cleaned with water when the liquid is still green.

Protection from Rain : The newly coated surface even it is covered with a thin bed of ceramic tile, stone or brick installation, is to be protected from rain or water for a minimum period of **24 hours at 25°C and Relative humidit 50%**.

Water ponding Test

The applied membrane is to be allowed to get air cured for 7 days prior to Water ponding test at **hours at 25°C and Relative humidity 50%**.

Installing Finishes

After the curing period of **7 days** is completed, ceramic tile, stone or brick may be installed over a thin bed mortar of **Hind Fix TA**. Do not use solvent based adhesive directly over **Hind Coat LR 9415** waterproofing membrane.

Drains & Penetrations

Silicone Sealant and backer rod made out of foam is to be used to seal the peripheral space between drain or penetration and properly finished. Grouts or joint filler mortar is not recommended to be used.

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Control Joints

Ceramic tile, stone and brick installations must include sealant filled joints over any existing control joints on the substrate. The sealant filled joints can be offset horizontal by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

Movement Joints

Ceramic tile, stone and thin brick installations must include expansion at coves, corners and other changes on the substrate plane and over expansion joints on the substrate. Expansion joints are also required in ceramic tiles, stone or brickwork along the perimeters, at restraining surfaces, at penetrations and at the intervals as described in TCNA (Tile Council of North America) handbook installation method EJ 171. Silicone sealant & backer rod is to be used for the same.

PROPERTIES

Colour	Black
Specific Gravity	1.150 to 1.200
Surface Temperature Range for application	8 to 32°C
Dry film Thickness required per Coat	0.5mm to 0.75mm
Coverage	Approx. 1.2 Sq. Mtr per Kg depending on the substrate porosity and texture.

Technical Data (ANSI DATA)

Applicable Standards: ASTM D 471, ANSI 118.4 & EN 14891 DMP

Hydrostatic Pressure (7 days)ASTMD 4068-01	No moisture penetration	40 hours
Tensile Strength (7 days)ASTMD 751	NotApplicable	300-350 psi
Shear Bond Strength of quarry Tile to Membrane (28 days)ANSI 118.4 Cl. 7.3	≥150 psi	275-350 psi
Shear Bond Strength of quarry Tile to Membrane Bond StrengthANSI 118.4 Cl 7.1	≥ 200 psi	300-350 psi
Drying Time at 21°C	-	Approx. 2-3 hours 1 st Coat
Curing Time at 21°C	-	Approx. 3-4 hours 2 nd Coat
Full Curing Time at 21°C	-	-
Tack Free Time (Visual Observation)	-	Approx. 5-7 days
Elongation at 7 daysASTMD 751	NotApplicable	>300%

Hydroban conforms to ASTM D751 & ANSI 118.4

PROPERTY : TEST METHOD	REQUIREMENT	TYPICAL VALUES
Water Impermeability (1.5 bars for 7 days of positive pressure) EN 14891 A.7	No Penetration	Passes
Crack Bridging ability in Standard conditions (23°C) – EN 14891 A 8.2	≥0.75mm	>1.5mm
Initial Adhesion Strength -EN 14891 A 6.2	≥0.5N/mm ²	1.2 N/mm ²
Adhesion Strength after Water Immersion- EN 14891 A 6.3	≥0.5N/mm ²	0.9 N/mm ²
Adhesion Strength after Heat Ageing- EN 14891 A 6.5	≥0.5N/mm ²	1.5 N/mm ²

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Adhesion Strength after Freeze-Thaw Cycles- EN 14891 A 6.6	$\geq 0.5 \text{ N/mm}^2$	1.0 N/mm ²
Adhesion Strength after contact with Chlorinated water - EN 14891 A 6.8	$\geq 0.5 \text{ N/mm}^2$	0.9 N/mm ²
Adhesion Strength after contact with Alkaline (Lime) water - EN 14891 A 6.9	$\geq 0.5 \text{ N/mm}^2$	0.8 N/mm ²

PACKING

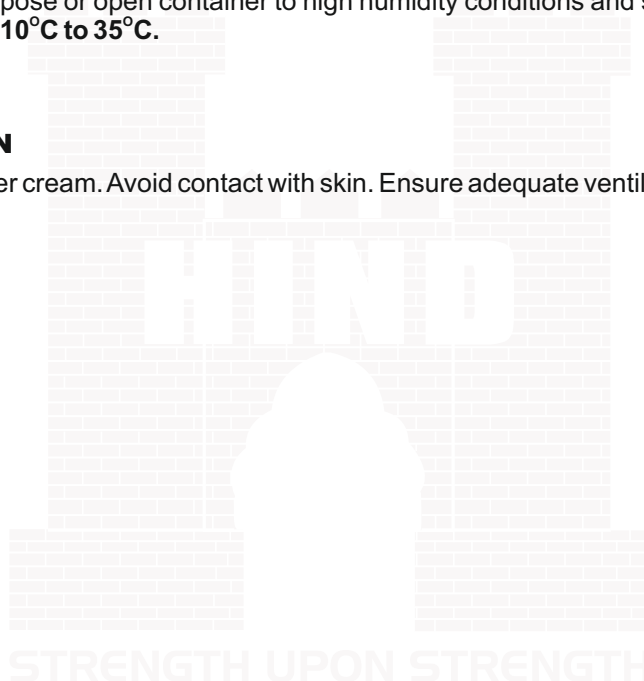
Hind Coat LR 9415 is available in 5 Kg & 20 Kg HDPE Container.

STORAGE

Best before 24 months in original unopened container. The area of storage shall be covered protecting the material from direct sunlight. Do not expose or open container to high humidity conditions and stored in a cool and dry place at temperature ranging between 10°C to 35°C.

HANDLING PRECAUTION

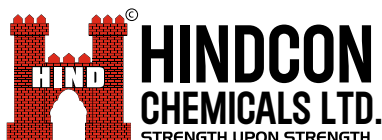
Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application.



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.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



✉ contactus@hindcon.com
☎ +91 33 24490839, 9830599113
☎ +91 33 24490849
📍 Kolkata, West Bengal, India

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