



IMPERMO

CEMENT WATERPROOFING COMPOUND (POWDER & LIQUID)

PRODUCT DESCRIPTION

IMPERMO is a water repellent product not containing calcium chloride. Available in powder form for adding to cement and in liquid form for adding to cement sand rendering, to overcome capillary absorption of moisture into cement mortar and concrete. IMPERMO has all the essential properties to waterproof concrete/sand cement rendering. Most economical as the quantity needed is just 2% powder or 0.4% liquid of the cement used.

USAGE OF IMPERMO

IMPERMO a product for practical use under ordinary conditions of building construction.

- Tank, roofs, reservoirs, cast stone, basement walls, swimming pools.
- Inspection pits, sewage works, floors, conduits, renderings particularly backing coats of white or colored cement finishes; p o o l s , cellars, garages, pits, walls.

OTHER ADVANTAGES

- **IMPERMO Mixed Sand/Cement Rendering** to prevent dampness: A 3 coat rendering should be adopted, each coat being approx. 9.5 mm thick. The proportions recommended are 2^{1/2} to 3 parts clean, well-graded sand to 1 part cement mixed with IMPERMO waterproofing compound. For slight seepage through walls it is possible to locate the pressure by inserting the pipes at position where the seepage is more as a definite outlet for water at the time of plastering. The pipes may after words be plugged with a soft wooden plug and plastered over an IMPERMO waterproofed cement mortar.
- **Curing Damp Walls:** It is almost impossible to guarantee a complete cure in cases whether the damp course has disintegrated. However, the following is the suggestion for treating damp walls in existing building in which there are no damp courses. A room may be made dry by stripping all old plaster from the inside walls about 750 mm. High and rendering the wall with 2 coats in waterproofed cement and sand in the proportion of 1 part cement to 2^{1/2} part sand (use IMPERMO powder 2 % or liquid 0.4 % of cement). This should be applied in 2 coats, each 9.5 mm thick, the 1st coat being well scratched to provide a good mechanical key, which is most essential, and allowed to harden for 30 hours before applying the 2nd coat. Further precautions should be taken to keep the base of the wall as dry as possible by concreting the ground at least 600 mm. Wide all around the building and making arrangements to drain away surface water from this area.
- **Watertight Joints:** A watertight joint can be obtained by 'tongueing' the concrete, which is particularly desirable at the junction between floors and walls. The width of this groove should be about 1/3 of the concrete.
- **IMPERMO as base coat for coloured renderings:** is of particular value in producing water repellent backing on which to apply coloured cement rendering. It is essential for such backing to be non-absorbent; otherwise there may be considerable variations in the coloured and texture of the finishing coat, due to uneven suction.

MIXING RATIO

Add only 1 kg of IMPERMO powder to every 50 kg of cement or add 200 ml of IMPERMO liquid to every 50 kg of cement mixed rendering. IMPERMO Integral Cement Waterproofing Compound (Powder) should be mixed thoroughly with the cement before the cement is mixed with aggregate. IMPERMO liquid should be thoroughly mixed with cement /sand rendering. The 2 materials should be heaped on a mixing board thoroughly turned over several times with a shovel to ensure maximum dispersion of IMPERMO throughout the cement. The use of IMPERMO is not designed to permit the disregard of any of the essential for producing good dense concrete.



ECONOMICAL ADVANTAGE: - is most economical, as the quantity required just 2% powder or 0.4% liquid.

Requirement of IMPERMO		
Cement (in kg)	Powder (in kg)	Liquid (in ml)
50	1	200
100	2	400
1000	20	4000
1 CU. Meter of concrete	Powder (in kg)	Liquid (in liter)
1:1:2 Mix	10.50	2.10
1:1 ^{1/2} :3 Mix	8.00	1.60
1:2:4 Mix	6.20	1.25

Note: - 1 sq. meter of rendering 12.5 mm thick 1:3 mix requires 0.15 kg of IMPERMO Powder or 30 ml of IMPERMO Liquid.

AVAILABLE PACK SIZES

IMPERMO in powder form is available in 01 kg poly pouches (25 nos. in a corrugated box), 5 kg & 20 kg multiwalled sacks. In liquid form, is available in 200 ml plastic bottles (25 X 200 ml in a corrugated box), 5 liter (6x5 liter in a corrugated box) and 30 liter. in jerry cans. All our packing has Snowcem Paints Hologram, a mark of genuineness.





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SURFACE PREPARATION

Before rendering, the surface should be thoroughly cleaned and all the joints raked out or provide a good key. Before application of the backing coat the wall must be soaked with water and the 1st coat applied when there is slight amount of moisture left on the surface *2 coat work: where the surface is reasonably even, and is in no place more than 9.5 mm out of alignment, 2 coat work may be applied *3 coat work: Where the surface is very rough or uneven, 3-coat work should be ruled off and combed with wavy horizontal lines to form a good key for the 2nd coat. The lines should be about 12.5 mm apart and not less than 3 mm deep. Where 3-coat work is employed, 48 hours should elapse between the application of the base coat and the 2nd coat. Finish coat: The finishing coat of not less than 3 mm should be composed of 2 to 3 part clean, well graded and suitably coloured sand to 1 part of white, coloured or ordinary cement. Curing: When the finished coat has hardened off. Care should be taken to keep the surface moist in dry weather. The usual precautions should be taken to see that all coats are properly protected from the effect of adverse weather conditions.

Materials to be used for watertight concrete works:

Cement: Portland cement should confirm to the Indian/British or other approved standard specification for Portland cement. 2% IMPERMO powder or 0.4% IMPERMO liquid should be added.

Water: Clean potable water should be used. The water in the aggregate should not exceed.

Normal Mix	Water/Cement ratio by wt.	liter per bag of cement
1:1:2	0.43	21.59
1:1 ¹ / ₂ :3	0.51	26.14
1:2:4	0.58	29.55

Aggregates should be inert clean, hard, strong, durable non-porous and well graded. The particles should not be coated with clay or dirt since these prevent proper bonding of the paste and increases porosity.

IMPORTANT PRECAUTIONS

Under no circumstances, quantity to be added should exceed more than 1 kg of powder or 200 ml of liquid to ever 50 kg of cement. It is intended for practical use under ordinary conditions of building construction. Will not serve any useful purpose unless it is mixes thoroughly.

HANDLING & STORAGE

Keep Sacks/containers airtight during handling and storage to avoid loss of material. Store IMPERMO in a cool dry place and also protect it from extreme climatic conditions during storage, in transit and at site.

SAFETY MEASURES

Kindly refer to the MSDS for IMPERMO which gives detailed information on safety measures while handling the product, which is available on request. Store the container with the lid tightly closed in an upright position, in a cool, dry place.

Keep out of reach of children and away from eatables.

May be harmful if swallowed. In case of ingestion seek immediate medical attention. In case of skin contact immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe vapour or spray. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.

In the event of spills, contain spillage using sand or earth.

Corporate office:

3rd Floor, Agrima Business Centre, N. K. Mehta International House, 178, Backbay Reclamation, Babubhai Chinai Marg, Mumbai - 400 020. Maharashtra, India.

Branches:

Ahmedabad | Bangalore | Ghaziabad | Jaipur | Kochi | Kolkata | Mumbai | New Delhi | Pune | Secunderabad

CFA Locations:

Cuttack | Indore | Jamshedpur | Kanpur | Nagpur | Raipur | Salem | Visakhapatnam

Eco-friendly Commitment: All products of Snowcem Paints are Lead, Chromium and Mercury free

Please consider the environment before printing it.

GREEN BUILDING PARAMETERS

IMPERMO qualifies for "GREEN BUILDING CRITERIA"

REFERENCE

Type of Paint	LEEDS*	TERI GRIHA*
Exterior Flat	100 g/l VOC	100 g/l VOC
Interior Flat	50 g/l VOC	50 g/l VOC

As per IS 15489 : 2004, Section 6.12.2.1 specifies the "product not to contain more than 5%, by mass, Volatile Organic Compounds"

* LEED - Leadership in Environment and Energy Design, USA.
TERI - The Energy and Resource Institute, India.
GRIHA - Green Rating Integrated Habitat Assessment.

VOLATILE ORGANIC COMPOUNDS

IMPERMO contains less than 40 g/l VOC

IMPWEMO contains 1-3% VOC.



HEAVY METALS

IMPERMO is free from lead, chromium (VI), cadmium, mercury and its compounds.



HAZARDOUS CHEMICALS

IMPERMO does not contain harmful compounds like formaldehyde, phenolic compounds, benzene, etc.

