# 105 HY Polyurea

**2-Component Elastic Hand-Applied Hybrid Polyurea Waterproofing Membrane**

## MSDS
## Material Safety Data Sheet


## 1. Identification of the Substance/Preparation and Company

Product Name: **105 HY Polyurea**
Chemical Name: Two-component, hybrid polyurethane/polyurea waterproofing membrane

Manufacturer/Supplier: **Carbolink India Private Limited**
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## 2. Hazards Identification

This product is classified under GHS as Skin Irritation Category 2, Respiratory Sensitizer Category 1, Eye Irritation Category 2, and Skin Sensitizer Category 1. It may cause skin and eye irritation, trigger allergic reactions, and can be harmful if inhaled, potentially causing respiratory irritation as well as headaches or dizziness from vapors. To ensure safe use, it should be handled only in well-ventilated areas while avoiding inhalation of vapors or spray mist. Wear proper protective equipment—including gloves, eye protection, and a safety mask—and avoid direct contact with skin, eyes, and clothing.

## 3. Composition/Information on Ingredients

This product consists of a two-component system, where Component A is a moisture-curing polyurethane prepolymer and Component B is a polyisocyanate curing agent, both made from proprietary formulations. The components are mixed in a 100:23.5 parts by weight ratio, and the material contains no solvents or hazardous fillers.

## 4. First Aid Measures

In general, immediate medical attention is recommended if any discomfort occurs. For inhalation exposure, move the person to fresh air, keep them warm and at rest, and seek medical attention if breathing difficulties appear. In case of skin contact, wash thoroughly with soap and water, remove contaminated clothing, and consult a doctor if irritation continues. For eye contact, rinse cautiously with clean water for at least 15 minutes and seek immediate medical care. If ingested, do not induce vomiting, provide a glass of water, and obtain urgent medical assistance.

## 5. Firefighting Measures

Suitable extinguishing media include foam, dry chemical, carbon dioxide, or water spray. During a fire, the product may release hazardous decomposition fumes such as carbon monoxide, carbon dioxide, and nitrogen oxides. Firefighters should wear self-contained breathing apparatus along with full protective gear.

## 6. Accidental Release Measures

For personal precautions, wear proper protective equipment, ensure good ventilation, and avoid inhaling vapors. To protect the environment, prevent the spill from entering drains, soil, or natural water sources. Clean-up methods include absorbing the spill with inert materials such as sand or sawdust, collecting it in suitable containers for disposal, and thoroughly cleaning the affected area with detergent and water.

## 7. Handling and Storage

Ensure the product is handled only in well-ventilated areas, avoiding contact with skin and eyes and preventing inhalation of vapors. Store it in its original, sealed containers in a cool, dry, and shaded location, maintaining a storage temperature between 5°C and 35°C. Protect the material from moisture exposure and keep it away from ignition sources.

## 8. Exposure Controls/Personal Protection

Use local exhaust ventilation indoors and wear full protective equipment—including a respirator, chemical-resistant gloves

safety goggles or face shield, long-sleeve clothing, and safety footwear—to ensure safe handling and minimize exposure.

## 9. Physical and Chemical Properties

The product is a viscous liquid with Component A in grey and Component B in amber or transparent form, featuring a mild odor, 88% ± 2% solid content, a density of 1.2–1.3 g/cm³, and a high-viscosity paste consistency. It delivers strong mechanical performance with ≥ 450% elongation at break, ≥ 4 MPa tensile strength, ≥ 60 Shore A hardness, and 3–4 mm crack-bridging capability. The material is resistant to temperatures from −30°C to +90°C and withstands hydrostatic pressure up to 7 bar.

## 10. Stability and Reactivity

The product remains stable under recommended storage and handling conditions but should be kept away from moisture, water contamination, excessive heat, and open flames. It is incompatible with alcohols, strong acids, bases, and amines, which may cause unwanted reactions. When exposed to improper conditions, it may decompose to produce $CO_2$, CO, nitrogen oxides, and other irritating vapors.

## 11. Toxicological Information

This product may enter the body through skin contact, eye contact, or inhalation and can cause skin irritation or sensitization, eye irritation, and respiratory irritation, with prolonged exposure potentially leading to allergic reactions. There are no known carcinogenic components in the formulation.

## 12. Ecological Information

The product is not readily biodegradable and has low mobility once cured, with no known significant bioaccumulation. While it does not present major environmental hazards, release into water systems should be avoided.

## 13. Disposal Considerations

Dispose of the product in accordance with local regulations, ensuring it is not discharged into drains or natural waterways. Hardened material may be disposed of as construction waste, while liquid waste should be treated as hazardous and handled accordingly.

## 14. Transport Information

105 HY Polyurea is not regulated as a hazardous material for transportation and therefore has no UN number, transport hazard class, or marine pollutant classification. It does not pose environmental transport hazards, though containers should be protected from physical damage and moisture during handling and transit.

## 15. Regulatory Information

This product complies with standard chemical safety regulations applicable to polyurethane and polyurea-based materials, and all components are REACH compliant. No additional substance-specific regulatory requirements apply beyond these general standards.

## 16. Other Information

**Preparation Date**: November 18, 2025
**Revision Date**: November 18, 2025
**Revision Note**: Updated for clarity and formatting.
**Disclaimer**: The information provided is based on current knowledge and is intended to describe the product for health, safety, and environmental requirements. It should not be interpreted as a guarantee of performance.

Always refer to the latest version of the MSDS before use.