

Transparent and clear liquid polyester to fill cracks and chippings and fix stones on a horizontal surface



PRODUCT BENEFITS

- Polyester base transparent liquid adhesive
- Fast setting and curing time
- Easily to apply and polish
- Good UV stability
- Colors can be mixed as per desired shade
- Polishable and grindable after curing

APPLICATION AREAS

- Walls
- Floors
- Showers
- Damp areas
- Tile on tile applications
- Dry areas
- Worktops

USAGE

RECOMMENDED SURFACES

- Granite,
- Marbles,
- Tiles,
- Sandstones,
- Cementitious tiles

COVERAGE

100- 250 sq. ft. per kg

PACKAGING SIZE

1 L

TECHNICAL DATA

| | |
|---|-------------------------------------|
| • Form | Transparent Liquid |
| • Mixing Ratio | 100 (resin) : 2 to 4 (hardener) pbw |
| • Density | 1.25 - 1.30 g/cm ³ |
| • Shelf Life | 6 months |
| • Pot Life | 15 minutes |
| • Curing Time (Touch Dry) 25 - 50 Deg C | 10-15 Minutes |
| • Curing Time (Touch Dry) 15 - 25 Deg C | 15-20 Minutes |
| • Curing Time (Touch Dry) 5 - 15 Deg C | 20-50 Minutes |
| • Curing Time (Full Cure) | 3- 5 Hours |

INSTRUCTIONS

SURFACE PREPARATION

- The substrate must be thoroughly cleaned and should be free of moisture, dirt, oil and grease etc.

PREPARING THE MIX

- Ensure proper and thorough mixing of resin (PART A) and hardener (PART B) before applying. DO NOT MIX ANY SOLVENTS.

APPLICATION METHOD

- Use Gloves during application. Follow manufacturer's instructions of for using gloves.
- Mask any surface not intended to be treated.
- The joints must be sealed with RachTR Back-Seal to avoid any penetration in to the substrate.
- Mix part A and B homogeneously and apply it on the edges of substrate. DO NOT ALLOW EXCESS MATERIAL TO DRY ON SURFACE.
- If excess mastic is not wiped off, residue appears, mechanically remove the cured epoxy.

- A full cure of R105 L is achieved after 3 hours; foot traffic may begin after 1-2 hours.
- Clean tools with appropriate solvent immediately after application and allow them dry in a well ventilated area.
- After 2-3 hours, the treated part can be further processed and transported.
- Hardener portion more than 5% will reduce adhesion and deteriorate surface drying.
- Hardener portion less than 1% will delay the hardening and can affect the desired quality.
- The low temperatures can significantly affect the curing process.

EMERGENCY/FIRST AID

STORAGE AND HANDLING

May be harmful if swallowed.

May cause skin, eye and respiratory irritation.

Do not spray. Avoid prolong exposure to vapors.

Use in a well ventilated area. Do not ingest.

KEEP OUT OF THE REACH OF THE CHILDREN.

Do not freeze or store above 40 °C.

Do not mix with other chemicals.



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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: R105 L

DATE: 12-03-2026

FUNCTION: Crack filling, joint filling of natural stones

REV: 02

COMPANY: RachTR Chemicals Pvt. Ltd.

ADDRESS: G1 586, RIICO Industrial Area, Opposite Fire Station, Kushkhera, Bhiwadi-301707, District-Alwar, Rajasthan

2. HAZARDS IDENTIFICATION

Emergency Overview: **WARNING!** Flammable liquid. Causes eye irritation. May cause skin and upper respiratory tract irritation. May cause central nervous system depression. Do not take internally.

Relevant Routes of Exposure: Inhalation, eye and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS# | Exposure Limits | % by weight |
|-----------------|-------------|--|-------------|
| Polyester Resin | Proprietary | None assigned | 40-50% |
| Styrene Monomer | 100-42-5 | 50.0 ppm ACGIH TWA 100.0 ppm ACGIH STEL | 25-40% |

4. FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention. Skin

Contact: Immediately flush with plenty of water for a least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

Ingestion: Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

5. FIRE-FIGHTING MEASURES

Flammable Liquid. Flammability Class: 1C

Extinguishing Media: Water spray, dry chemical, Carbon Dioxide, Foam

Protective Equipment: : Wear self-contained breathing apparatus and protective clothing.

Special Exposure Hazard: Containers can build pressure if exposed to heat or fire.

The heat from a fire may cause polymerization which could cause violent rupture of closed drums. Vapors from the product may form explosive mixtures with air.

Special Fire Fighting Procedures: Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Leaks and Spills: Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. For large spills; flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams.

Personal Protection: Wear protective clothing.

7. HANDLING AND STORAGE

Handling: Material is a combustible liquid; keep away from heat, open flame, oxidizers, and other ignition sources. Avoid breathing vapors. Use protective equipment when handling.

Storage: Store with adequate ventilation and out of direct sunlight. Bond ground containers of this product to prevent static sparks. Store away from oxidizing agents. Always use the oldest lot first.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Control: Local exhaust ventilation should be used to control the emissions of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn.

Respirator type : Organic vapor. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Ventilation Required: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Skin Protection: Wear impervious gloves, boots, and protective clothing appropriate for the risk of exposure.

Eye Protection: Wear safety glasses with side shields (or goggles).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Odor: Styrene odor

Flash Point: 89°F TCC

Vapor Pressure: 4.50 mm Hg @ 68°F

Oxidizing Properties: Reacts with strong oxidizing agents

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions To Avoid: Heat and open flame

Incompatibility With Other Materials: Avoid oxidizing agents

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide and Organic Acids Hazardous

Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

Material LD50.RAT.Oral

Styrene >5g/kg

Eye Effects: Mildly irritating

Skin Effects: Mildly irritating

Inhalation Effects: Prolonged breathing of vapors can cause headache Ingestion

Effects: May cause nausea.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The styrene in this product is expected to be toxic to aquatic organisms. Persistence:
This product is expected to biodegrade.

13. DISPOSAL CONSIDERATION

Disposal: Discharge, treatment, or disposal may be subject to national, state and local laws. Incinerate.
Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Technical Shipping Name.....Unsaturated polyester, contains styrene
Freight Class Bulk.....Not Applicable
Freight Class Package Resin, Coal Tar or Petroleum
Product Label.....3200 LVP Isophthalic Polyester Resin

DOT (DOMESTIC SURFACE)

Proper Shipping Name.....Resin Solution
Hazard Class or Division.....3
UN/NA Number.....UN1866
Packing Group.....III
DOT Product RQ lbs (kgs).....4166 lbs (1889.7 kgs) Hazard
Label (s).....Flammable Liquid:
Hazard Placard (s)Flammable

IMO / IMDG CODE (OCEAN)

Proper Shipping Name.....Resin Solution
Hazard Class or Division.....3
UN Number.....UN1866
Additional IMO Information... ..Marine Pollutant
Packing Group.....III
Hazard Label (s).....Flammable Liquid; Marine Pollutant (Mark) Hazard
Placard (s)Flammable Liquid; Marine Pollutant

ICAO / IATA (AIR)

Proper Shipping Name.....Resin Solution
Hazard Class Division Number.....3
UN Number.....UN1866
Subsidiary Risk.....None
Packing Group.....III
Hazard Label (s).....Flammable Liquid
Radioactive.....Non-Radioactive

Passenger Air – Max. Qty.....60L
Passenger Packing Instruction.....309
Cargo Air – Max Qty.....220L
Cargo Air Packing Instruction.....310

15. REGULATORY INFORMATION

NFPA Codes:

| | | | | |
|---------|---|--------------|---|-------------|
| Health: | 2 | Flammability | 3 | Reactivity: |
| 1 | | | | |

HMIS Codes

| | | | |
|-------------|---|--------------|---|
| Health | 2 | Flammability | 3 |
| Reactivity: | 1 | | |

Workers using this product should read and understand this MSDS and be trained in the proper use of this material.

16. OTHER INFORMATION

No specific Notes

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material use in combination with any other materials or any process, unless specified in the test.