

ShaliSeal EMS

Two Component Epoxy Modified Sealant



Description

ShaliSeal EMS (formerly known as ShaliEMS 700) is a two component, semi-rigid epoxy for filling control and construction joints in industrial concrete floors. The mixed sealant is self-leveling and can be poured directly into horizontal joints to form a tough resilient seal. This product supports the joint edges and reduces spalling of the edges caused by wheel traffic.

Approvals / Standard

To comply with **ACI 302** recommendations regarding control and construction joints.

Product Information

Composition	Polysulphide modified Epoxy sealant.
Handling & Storage	The material must be stored in a shaded area with minimum exposure to sunlight and UV. The containers should be protected from all sources of heat, ignition & extreme cold.
Packaging	Available in 2 ½ kg Unit contain both hardener and resin packed in 15 kg carton.
Shelf Life	6 months when stored in unopened sealed conditions away from heat and sunlight.
Handling Precautions	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

Technical Characteristics @ 27 °C, 55% RH

Pot Life, minute	14 - 18	Mixed Density, gm / cc	1.30 - 1.50
Compressive Strength, 72 hrs. (ASTM C 579), MPa	18 - 22	Tack free time, hrs.	8 - 10
Tensile Strength, 7 days (ASTM D 638), MPa	4 - 6	Chemical Resistance after 72 hrs. <ul style="list-style-type: none">• CaCl₂ (10%)• Caustic (10%)• Muriatic Acid (10%)	Excellent Excellent Excellent
Elongation, 7 days, % (ASTM D 638)	60 - 80		
Water Absorption, % (ASTM D 570)	0.6 - 1.0		
Shore A Hardness, 7 days (ASTM D 2240)	80 - 90		

Guide to Estimate Sealant Quantities

Sealant Consumption in running meters / kg = $714.3 / (W \times D)$

W - Joint Width in mm

D - Sealant Depth in mm

Field of Application

- Concrete construction and control joints in industrial floors
- Crack filler repair for old floors.

Advantages

- Semi-flexible formula that allows for limited temperature and humidity movement of concrete.
- Tough performance reduces floor joint repairs and maintenance.
- Suitable for filling cracks in older floors to reduce the rate of deterioration

Application Methodology

- Ensure that the groove to be treated is free from oil, grease, paints or any other contamination.
- Any dust or loose particles has to be removed by air pressure or by any other suitable method

- Grooves should be clean and dry prior to the application of **ShaliSeal EMS**.
- Masking tape has to be applied near the edge of the groove to get a straight neat finish.
- Mix component A and Component B separately. If settling is observed in the Comp A and Comp B, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing. Mix Comp B gradually into the Comp A under continuous stirring.
- After ensuring a homogenous mix, pour the mixed material into the groove.
- Joints should be overfilled and immediately cut with a razor knife or ground flush with the floor. If **ShaliSeal EMS** has completely hardened, a heat flame may be used to soften the material for easier removal.
- **ShaliSeal EMS** requires no special curing instructions. The product will cure within 24 hrs. of placement @ 25°C. Lower temperature will slow the curing rate.

Precautions

- Based on ACI 302 recommendations, epoxy joint filler should be applied 3 to 6 months after construction, the later the better.
- Do not use **ShaliSeal EMS** as an expansion joint sealant.
- Use only at temperature above 4°C
- Contact surfaces must be cleaned and dry.
- **ShaliSeal EMS** is not UV stable.
- Not recommended for vertical joints.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with skin/eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Cleaning

Tools, equipment and general clean-up can be done with STP Thinner only. Do not allow the material to harden.



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