Sikadur 35, Hi-Mod LV

Application Instructions
Sikadur 35, Hi-Mod LV

- Structural epoxy adhesive
- Multi-purpose
- Two-component
- 100% solids
- Low viscosity
- Moisture-tolerant
- High strength

Sika Corporation
Sikadur 35, Hi-Mod LV

▲ Where to use:

• Pressure-injection of cracks in structural concrete, masonry, wood, etc.
• Gravity-feed of cracks in horizontal concrete and masonry
• Epoxy resin binder for epoxy mortar patching and overlay of interior and horizontal surfaces
• Sealing of interior slabs and exterior above-grade slabs
Sikadur 35, Hi-Mod LV

▲ Packaging:
  • 1 and 3 gal. units
  • 165 gal. units (drums)

▲ Coverage:
  • 1 gal. yields 231 in$^3$ of adhesive and grout
  • 1 gal. of adhesive (A + B), when mixed with 5 gal. by loose volume of oven-dried aggregate, yields approx. 808.5 in$^3$ of epoxy mortar
Surface Preparation

▲ Surface must be clean and sound.
▲ Surface can be either dry or damp, but free of standing water. Dry conditions are ideal.
▲ Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants before application.
Surface Preparation

▲ Concrete:

- Surface should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.

- Follow typical concrete repair mortar guidelines for surface preparation (SSD not required), for epoxy mortar applications.
Steel Preparation

▲ Steel

- Steel should be cleaned and prepared thoroughly by blast cleaning.
Tools Required

▲ ½" drill motor
▲ Low speed drill (400-600 rpm)
▲ Drill and Jiffy paddle for mixing
▲ Spatula
Mixing

- Pre-mix both A & B components
- Condition to 65°-85°F before mixing
- Proportion 2 parts A to 1 part B by volume into clean pail
- Mix thoroughly for 3 minutes with Jiffy mixing paddle on low-speed (400-600 rpm) drill until uniform in color
- Mix only quantity that can be used within pot life
Application – Gravity Feed

△ Blow V-notched crack clean with oil-free compressed air.

△ Pour neat Sikadur 35, Hi-Mod LV into V-notched crack until completely filled.

△ Seal underside of slab prior to filling if cracks reflect through.

![Diagram showing the application process of Sikadur 35, Hi-Mod LV into a V-notched crack. It illustrates the flow of the material from above, filling the crack completely.]
Application – Pressure Inject

1. Set appropriate injection ports based on system
2. Seal ports and crack with Sikadur 31 Hi-Mod Gel, Sikadur 33 or Sikadur Injection Gel
   • Use automated injection equipment or manual method.
   • When the epoxy adhesive seal has cured, inject Sikadur 35, Hi-Mod LV with steady pressure.
Application – Slab Sealer

▲ Spread neat Sikadur 35, Hi-Mod LV over slab. Allow penetration.

▲ Remove excess to prevent surface film. Seal interior slabs and above-grade exterior slabs only.
Mixing

▲ Epoxy Mortar

- Add 4 - 5 parts by loose volume of an oven-dried silica sand to 1 part of mixed Sikadur 35, Hi-Mod LV and mix until uniform in consistency.
Application

▲ For an epoxy mortar

- Prime prepared surface with neat Sikadur 35, Hi-Mod LV.
- Place prepared epoxy mortar before primer becomes tack-free.
- Place the epoxy mortar using trowels.
- Compact and level with vibrating screed or trowels.
- Finish with finishing trowel.
Precautions

▲ Always read the current product data sheet, material safety data sheet and label prior to use
▲ Avoid skin and eye contact
▲ Wear
  • chemical resistant gloves
  • goggles
▲ Ventilate area
▲ Dispose of in accordance with local, state and federal regulations
▲ Uncured material can be removed with approved solvent (e.g. xylene, acetone or MEK)
▲ Follow manufacturer’s warnings and instructions for use
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Sika Product Data Sheets can be obtained via:

http://usa.sika.com

Refer to data sheets for specific information on each Sika product.