



# BEST SL-2000 EPOXY

Four-component, flow-applied self-levelling epoxy floor topping

| PRODUCT            | SYSTEM            | PACK SIZE          | ORIGIN   |
|--------------------|-------------------|--------------------|----------|
| BEST SL-2000 EPOXY | 4-component epoxy | 26 kg complete set | Malaysia |

## DESCRIPTION

BEST SL-2000 EPOXY is a four-component, flow-applied epoxy resin floor topping formulated in principle for a smooth, coloured, seamless and hard-wearing finish on suitably prepared concrete. It is designed for use in wide range of industrial environments where a lasting solution to floor maintenance problems is required.

## TYPICAL USES

Industrial and commercial interior floors, including light manufacturing areas, workshops, plant rooms, laboratories, clean areas, kitchens and service corridors where a dense, easy-to-clean resin surface is required. Confirm suitability for food processing, pharmaceutical, aggressive chemical exposure, thermal shock, wet areas and heavy impact before use.

## KEY BENEFITS

- Seamless, coloured finish with no grout lines
- Dense surface designed to reduce dusting and simplify routine cleaning
- Good potential abrasion and chemical resistance typical of properly formulated, fully cured epoxy flooring
- Flow-applied finish can provide a smooth, light-reflective appearance
- Pre-packed multi-component system intended for controlled on-site mixing.

## TECHNICAL DATA

| Property                      | BEST SL-2000 information                                                        | Status                 |
|-------------------------------|---------------------------------------------------------------------------------|------------------------|
| Binder type                   | Epoxy resin with curing agent and graded aggregate & colorant                   | System description     |
| Number of components          | 4 components                                                                    | 4 components           |
| Total kit weight              | 26 kg per set                                                                   | 26 kg per set          |
| Nominal application thickness | 2 mm to 4 mm is a common design thickness for this class of flow-applied epoxy  | Indicative only        |
| Pot life                      | @ 25C @35C                                                                      | @ 25C @35C             |
| Foot / vehicle traffic        | 24 hours 16 hours; must be established for site temperature and system build-up | 24 hours 16 hours      |
| Full chemical cure            | Do not expose to chemicals until cure period has elapsed                        | 7 Days                 |
| Adhesion Strength             | > 1.5N/mm <sup>2</sup>                                                          | > 1.5N/mm <sup>2</sup> |
| Shore Hardness                | 70 - 80                                                                         | 70 - 80                |
| Flexural strength, @ 7 days   | 30 N / mm <sup>2</sup>                                                          | 30 N / mm <sup>2</sup> |
| Tensile Strength @ 7 days     | 12 N / mm <sup>2</sup>                                                          | 12 N / mm <sup>2</sup> |
| Colour                        | Available in a wide range of colors and shades                                  |                        |
| Shelf life                    | 2 Years when unopened                                                           |                        |

## DESIGN & COVERAGE

BEST SL-2000 coverage depends on mixed density and target thickness; actual coverage can be lower where the substrate is rough, porous or uneven, or where material is lost during mixing and placement. Theoretical coverage area 80 sft at 2 mm thickness per set of BEST SL-2000.

## SUBSTRATE REQUIREMENTS

The concrete must be sound, stable, clean and free of laitance, dust, oil, grease, curing compounds, old coatings and other bond-inhibiting contaminants. Mechanically prepare by diamond grinding or shot blasting as appropriate and vacuum thoroughly. Repair cracks, pinholes and surface defects with compatible materials. Confirm substrate strength and moisture limits with the manufacturer. Do not apply to concrete subject to rising damp or moisture conditions outside the approved system limits.

## APPLICATION METHOD

- 1. Environmental checks.** Check substrate and ambient temperature, relative humidity and dew point. Prevent condensation during application and curing.
- 2. Priming.** Apply the compatible primer specified for the system at the approved consumption rate. Allow it to reach the required recoat condition; avoid ponding or applying the topping over an unsuitable tacky primer.
- 3. Mixing.** Use the complete, pre-weighed kit. Mix each component only as instructed, then combine all components in the specified order using a low-speed mechanical mixer. Scrape the container sides and base and mix until uniform. Do not part-mix kits, add solvent or water.
- 4. Placing and levelling.** Pour the mixed material onto the primed substrate promptly. Spread evenly with a suitable serrated trowel or gauge rake to the approved thickness. Use a spiked roller only where required by the approved method statement, before the material begins to set.
- 5. Curing.** Protect the surface from dust, moisture, condensation, direct sunlight and traffic during cure.

## SYSTEM BUILD-UP

| Layer                   | Purpose                                      | Requirement                                           |
|-------------------------|----------------------------------------------|-------------------------------------------------------|
| Concrete substrate      | Load-bearing base                            | Sound, clean, prepared and within moisture limits     |
| Compatible epoxy primer | Promotes adhesion and seals surface porosity | Product and coverage to be confirmed                  |
| BEST SL-2000 EPOXY      | Self-levelling wearing layer                 | Four-component 26 kg set; apply at approved thickness |

## JOINTS, LIMITATIONS & MAINTENANCE

Continue existing movement and expansion joints through the floor finish and seal with a compatible joint sealant. Do not bridge active joints with a rigid epoxy layer. Do not apply to weak or friable concrete, unstable substrates or surfaces with unapproved moisture conditions. The coating is not a substitute for a damp-proofing or waterproofing system. Clean spills promptly; after cure, use compatible cleaning products and confirm chemical resistance for the actual chemicals, concentrations and temperatures expected in service.

## HEALTH & SAFETY

Wear suitable chemical-resistant gloves, safety goggles and protective clothing; provide adequate ventilation and respiratory protection where required by the SDS and site risk assessment. Avoid skin and eye contact. Uncured epoxy and hardener may irritate or sensitize. Prevent release to drains and dispose of residues and packaging according to local regulations.

## CLEANING & MAINTENANCE

Clean all tools immediately after use, do not allow materials to harden. Service life of a floor will be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a warm miscible cleaning agent at temperature up to 50 degree Celsius.

## PACKAGING, STORAGE & QUALITY CONTROL

| Item                      | Information from supplied packaging |
|---------------------------|-------------------------------------|
| Pack size                 | 26 kg complete set                  |
| Middle Coat Part A        | 3.5 kg                              |
| Middle Coat Part B        | 5.5 kg                              |
| Colour / finish component | 0.6 kg                              |
| Aggregate                 | 16 kg                               |

Store components sealed in their original packaging in a dry, shaded, well-ventilated location, protected from heat and direct sunlight. Do not use material beyond its printed shelf life or where a component has changed appearance. Before each installation, check batch numbers, pack integrity, substrate condition, environmental readings, mixing records and the approved method statement. A representative site trial is recommended.

## SPECIFICATION NOTE

For project specifications, require a four-component self-levelling epoxy floor topping installed by trained applicators over mechanically prepared concrete and a compatible primer, at the manufacturer-approved thickness. The supplier should submit current product-specific technical data, SDS, test reports, colour confirmation, component weights, mixing instructions, coverage rate, cure schedule and chemical-resistance guidance before approval.



Puchong, Malaysia