

## SpECcoat MHL

SOLVENT-FREE EPOXY LINING AND BENCHING MORTAR

### DESCRIPTION

**SpECcoat MHL** is a three-component solvent-free, thixotropic epoxy compound, specifically formulated to provide a protective lining to concrete elements where chemical and abrasion resistance is required.

### TYPICAL USES

- Ideally suited for the reinstatement of manholes and outfalls.
- As a protective lining to exposed concrete in sewage works.

### ADVANTAGES

- Pre-packaged, which ensures constant high quality
- Solvent free - non-hazardous in enclosed areas
- Highly impervious
- Excellent abrasion resistance
- Excellent impact resistance
- Excellent chemical resistance
- Trowels to a smooth finish
- Slip resistant
- Non-tainting

### TECHNICAL DATA

#### Typical values

<b>Compressive strength</b> <b>(ASTMC-109: 9)</b>	71N/mm <sup>2</sup> @ 1 day 83N/mm <sup>2</sup> @ 7 days
<b>Flexural strength</b> <b>(ASTMC-348: 92)</b>	27.5N/mm <sup>2</sup> @ 7 days
<b>Tensile strength</b> <b>(ASTMC-307: 94)</b>	11.2N/mm <sup>2</sup> @ 7 days
<b>Water absorption</b> <b>(ASTMC-413-94)</b>	0.2%
<b>Pot life</b>	1 hour
<b>Initial Hardness</b>	1 day
<b>Full cure</b>	7 days
<b>Fresh wet density</b>	2,000kg/m <sup>3</sup>

### CHEMICAL RESISTANCE

10% Nitric acid	Good
50% Phosphoric acid	Very good
10% Lactic acid	Very good
10% Citric acid	Excellent
25% Hydrochloric acid	Excellent
10% Tartaric acid	Excellent
50% sodium hydroxide	Excellent
100% petrol / diesel	Excellent

### APPLICATION

#### Preparation

The substrate must be thoroughly prepared by either high pressure water jetting or by light grit blasting. Any contaminants such as oil, grease or laitance must be removed completely.

#### Priming

The prepared surface should be primed with **SpECbuild Primer E1**.

The contents of the curing agent should be emptied into the base component and stirred with a spatula until the product appears uniform.

The mixed primer should then be applied to the prepared substrate by a stiff brush at 5m<sup>2</sup>/litre. If the primer appears to be absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free.

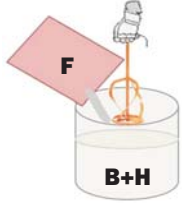
#### Mixing

**SpECcoat MHL** is supplied in a three-component pack consisting of one tin of resin, one tin of hardener and one bag of specially selected fillers.

The product must be mixed as follows:

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Empty the contents of the hardener tin into the base component and mix with a slow speed drill and paddle until uniform.

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Empty the mixed resin and hardener into a clean 25 litre steel pail and whilst mixing, slowly add the filler component. The sides of the pail should be scraped down during mixing to ensure that all the ingredients are thoroughly blended. Mixing should continue for at least 5 minutes.

### Application

**SpECcoat MHL** should be applied to the prepared and primed substrate using a steel trowel. The product should be pressed onto the surface in thickness no greater than 12mm vertically and in hot conditions it may be necessary to reduce the build to 10mm to avoid sagging. If subsequent layers are required, finishing of the first layer should be minimal to provide a mechanical key for the subsequent layer, which must be applied 24 hours later. The final layer should be close trowelled to achieve the desired finish.

### EQUIPMENT CLEANING

**SpECcoat MHL** should be cleaned from tools and equipment immediately after use using **SpECcoat Cleaning Fluid**.

### PACKAGING AND YIELD

**SpECcoat MHL** is supplied in 12 litre units.

#### Coverage

@ 12mm thick: 0.083m<sup>2</sup>/litre

**SpECbuild Primer E1** is supplied in 5 litre packs. Coverage 5m<sup>2</sup> / litre

**SpECcoat Cleaning Fluid** is supplied in 5 litre packs.

### LIMITATIONS

Do not mix part packs under any circumstances. **SpECcoat MHL** should not be exposed to running water during application. Exposure to heavy rain prior to hardening could result in surface scour.

### STORAGE AND SHELF LIFE

Store in dry conditions in the original, unopened packs. If stored at high temperatures or at high humidity, the shelf life may be reduced by as much as 6 months.

### HEALTH AND SAFETY

**SpECbuild Primer E1 & SpECcoat Cleaning Fluid** are flammable. **SpECcoat MHL, SpECbuild Primer E1 & SpECcoat Cleaning Fluid** should not come into contact with skin or eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. DO NOT USE SOLVENT. In case of eye contact, rinse immediately with plenty of clean water and seek medical advice. If ingested seek medical attention immediately. DO NOT INDUCE VOMITING

### FLASH POINTS

<b>SpECcoat MHL</b>	>150°C
<b>SpECbuild Primer E1</b>	>150°C
<b>SpECcoat Cleaning Fluid</b>	>40°C

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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