

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

- 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

Compressive strength (ASTM C-109)	50±5 N/mm ² @ 1 day 65±5 N/mm ² @ 7 days 70±5 N/mm ² @ 14 days
Flexural strength (ASTM C-348)	25±5 N/mm ² @ 7 days
Tensile strength (ASTM C-307)	10±2 N/mm ² @ 7 days
Water absorption (ASTM C-413-94)	0.5 to 1.0%
Pot life	1 hour
Initial Hardness	1 day
Full cure	7 days

CHEMICAL RESISTANCE

10% Nitric acid	Good
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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 5 m²/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.

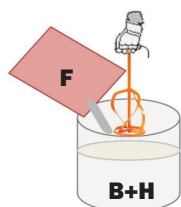
Mixing

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:



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



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: 1 m²/pack

SpECbuild Primer E1 is supplied in 5 litre packs.

Coverage 5m² / 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

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

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Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

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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