

TECHNICAL DATA SHEET

DESCRIPTION

Hybritech MS Detail is a solvent-free, based off Hybritech MS Polymer technology, grey coloured, liquid waterproofing systems that are applied with a brush. After reaction or polymerisation with the humidity present in the air, they form a waterproof skin around the finished roof detail, resulting in seamless waterproofing. In many cases, roof details are too complex to guarantee a waterproof finish using standard roof membranes.

AREAS OF APPLICATION

The system is specifically recommended for the waterproofing of roof details for roofs with technical installations and for roofs with complex shapes, in both new buildings and renovations. The system can also be used for the waterproofing of simple and complex roof details such as flashing, raised edges of domes or skylights, chimneys, ventilation lead-throughs, posts, scuppers, etc.

REINFORCING FLEECE

Non-woven polyester membrane used as reinforcement for the liquid waterproofing of details, not affected by acids and most alkalis and bacteria. Use the strip at a width of \pm 12 cm. **Not supplied by Nuralite**

Weight 30 g/m²

Tensile strength lengthwise 52 N/ 5 cm

Tensile strength crosswise 61 N/ 5 cm Tear resistance lengthwise 12 N

Tear resistance crosswise 11.3 N

Elongation at break, lengthwise 28 %

Elongation at break, crosswise 34 %

Thickness 0.13 mm

PREPARATION

All surfaces must be clean and free from grease, oil, release agents or dust etc. It can be applied using brush, roller, or spray. The area around the detail should be outlined with masking tape in order to obtain a well-outlined finish for the detail.

NOTE: Concrete must be cured for a minimum of 28 days and have a moisture content of 18% or less.

Plywood and timber must have a moisture content of 18% or less and be of the correct standards.

The below table shows a list of the substrates on which Hybritech MS Detail can be applied, indicating whether the substrate should be pre-treated and primed first.

| Substrate | Hybritech MS Detail | Teknoprimer Detail |
|--------------------|---------------------|--------------------|
| Nuraply 3PM & 3PTM | 2 | No |
| Steel | 6 & 7 | No |
| Aluminium | 6 & 7 | No |
| Copper | 6 & 7 | No |
| Zinc | 6 & 7 | No |
| Old Lead | 6 & 7 | No |
| Polyester | 7 | No |

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|----------------|-----|----|
| Concrete | Yes | 8 |
| Brick | Yes | 8 |
| Mortar | Yes | 8 |
| Natural Stone | No | No |
| Hard PE | No | No |
| Hard PVC | 7 | No |
| Acylate / PMMA | 3 | No |
| Polycarbonate | No | No |
| Timber | 9 | No |

- 1) In the case of bituminous membranes finished with sand or talc, remove all loose sand or talc with a stiff brush before starting.
- 2) In the case of bituminous membranes finished with slate flakes or granulate, brush away any loose particles with a wire hand brush before starting.
- 3) An internal ageing test should be carried out first.
- 4) Roughen the membrane first using a belt sander, and then apply Quick Prime Plus.
- 5) Roughen the membrane first using a belt sander.
- 6) Sand down the metal to clean the substrate.
- 7) Pre-clean with methyl ethyl ketone (MEK) or Acetone solvent.
- 8) If the substrate is very porous, apply Teknoprimer Detail first. The substrate must be clean, dry, and free from dust and loose particles, and must have cured for a minimum of 28 days. The relative humidity of the screed or concrete may not exceed 18%, measured on the wooden scale of a Protimeter.
- 9) Must have been pre-treated for outdoor use. Chipboard panels must be water-repellent.

Situations where these liquid waterproofing systems cannot be applied:

- On Teknoprimer Detail that is still moist or wet (drying time approx. 30 min.). The primer layer must have become transparent.
- Hybritech MS Detail cannot be applied indoors due to the odour. Hybritech MS Detail can be applied outdoors.
- If the temperature is below + 5°C, or if there is a risk that the temperature will drop below 5°C within 4 hours following the application.
- If the air temperature is above +35°C, and if the surface temperature is above +50°C.
- At a relative humidity degree above 85 %.
- During rainfall or in the case of fog.
- On substrates where the temperature is below + 5°C.
- On a frozen but dry substrate.
- In areas where capillary rising damp could occur (e.g., vapour diffusion within the building because there is no moisture barrier, or humidity from the soil in the case of a terrace on the ground floor because there is no moisture barrier under the concrete).
- On synthetic or rubber membranes that are not listed in Table 1.
- On hard polyethylene accessories.
- On polycarbonate boards.
- On natural stone.

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APPLICATION OF TEKNOPRIMER DETAIL

Apply Teknoprimer Detail with a brush or roller at a rate of 0.1 to 0.2 L/m². Leave to dry in the open air for 30 minutes. The primer is applied to a distance of 1 cm beyond the surface that is to be treated.

APPLICATION OF MS DETAIL

Never stir Hybritech MS Detail!

- Open and close the lid of the packaging smoothly, without using force.
- The coating can be applied with a brush, a roller, or a spatula.
- Adapt the size of the brush to the dimensions of the can.
- Hybritech MS Detail can be applied in 1 layer or in 2 layers (wet-on-wet).
- If a layer of primer has been applied first, the outer edge of the liquid waterproofing should be 1 cm inside the outer edge of the primed area.
- Remove the masking tape within 30 minutes of applying the product.

Follow the application instructions as described above.

For aesthetic reasons you can scatter slate flakes within the damp liquid waterproofing. After a period of 30 minutes, it is no longer necessary to protect the layer from rain drops.

Always use non-woven Polyester tape when bridging different substrates and changing plains.

PACKAGING

1 litre steel tin.

STORAGE

Store in cool, dry conditions out of direct sunlight between 5° C and 25° C. This product **MUST** be protected from frost. Do not store upside down.

SHELF LIFE

12 months in the hermetically sealed packaging under normal temperature conditions and in original containers. Once opened: use within 2 months. Do not store upside down.

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