Instructions for use of BLOWERPROOF® LIQUID BRUSH.

1. **Area of use:**

   Blowerproof® Liquid BRUSH dries to form a membrane for permanent airtightness for the following building parts:
   - Floor/wall connections
   - Wall/ceiling connections
   - Wall/wall connections
   - Walls – surface sealing
   - Window jamb
   - Pipe penetrations

2. **System**

   BLOWERPROOF® LIQUID BRUSH is a paint-on airtightness membrane. Suitable substrates include concrete, masonry, bricks, blocks, plaster/render, engineered wooden boards, tapes, membranes, aluminium, steel and PVC.

   BLOWERPROOF® LIQUID BRUSH dries to form a flexible elastic membrane with strong adhesion to the substrate.

   BLOWERPROOF® LIQUID BRUSH is a water-based dispersion without organic solvents. Dried material can be disposed of as non-hazardous waste.

3. **Materials and tools needed:**

   - Craft knife, tape measure, bag for waste
   - Masking tape
   - Vacuum cleaner (also for removing standing water)
   - Non-shrink gap-filling mortar or non-shrink polyurethane foam.
   - Trowel
   - Empty buckets, water for cleaning tools
   - Products: BLOWERPROOF® LIQUID BRUSH
   - Flat synthetic bristle paintbrush (for use with waterborne paints)
   - Surface temperature meter
   - Personal safety equipment: Gloves, safety shoes, helmet, work clothes
4. **Individual protection:**

- Gloves, safety shoes, helmet, work clothes
- Consult the Safety Data Sheet prior to application. Always work in well-ventilated areas. Avoid direct skin contact when product is in wet condition. You are advised to wear eye protection, mouth mask, gloves and safety wear during application.

5. **Inspection and preparation**

The successful sealing with BLOWERPROOF® LIQUID BRUSH also depends on thorough preparation of the substrate. The following preparation instructions need to be followed.

- Standing water, dust and loose particles are removed with a vacuum cleaner. BLOWERPROOF® LIQUID BRUSH may be applied to humid (damp) surfaces.
- The ambient and substrate surface temperature must be > 5°C; this needs to be verified with a surface temperature meter.
- Fill holes and gaps bigger than 5mm with non-shrink gap-filling mortar, non-shrink polyurethane foam. When using polyurethane foam, cut off excess after hardening.

**Note:**

*Movement Joints & Non-standard applications:*

For applications where significant movement may occur post-installation of the airtight layer, the following additional preparation is needed: apply BLOWERPROOF® BUTYTAPE, (a self-adhesive tape) over the joint which is then overcoated with BLOWERPROOF® LIQUID BRUSH. To ensure optimal adhesion of BLOWERPROOF®BUTYTAPE first brush apply PRIMER 46, let it dry (time varies according to environmental conditions, typically 12-24 hours); then apply BLOWERPROOF® BUTYTAPE and roll with a pressing roller to ensure the glue is activated and full contact with the substrate is achieved.
6. Application
- Apply BLOWERPROOF® LIQUID BRUSH with a flat synthetic bristle paintbrush. Consumption: 0.5kg/m² to 1kg m² or about 500 to 1000 microns to be verified with a thickness gauge as described in paragraph 8 below.
- The product is not painted but smeared, as to obtain a closed membrane over a surface. So scoop with the flat paintbrush, and smear over the surface.
- Thickness is verified with a wet film thickness gauge for each layer, to ensure minimum total coverage of 500 microns. In general, when the substrate is not visible anymore, the coverage of min. 500 micron is reached.
- Avoid (local) layer thickness of > 1500 micron for example in joints/openings in the surface which haven’t been prepared properly.
- Apply over an area sufficient to overlap finish plaster or render by 50mm and in all cases a minimum of 50mm above DPC at ground level. See picture in chapter 1.
- During the drying process, BLOWERPROOF® LIQUID BRUSH will change colour from blue to black. Black colour means that BLOWERPROOF® LIQUID has dried out and is ready to accept specified finish (*)
(*) BLOWERPROOF® LIQUID BRUSH is also available in white. This product type does not show a colour change when drying. Hence, take into account a drying time of 2 to 6 days depending on humidity, (lack of) ventilation and surface temperature. (based on wet layer thickness – WLT – of 0,5 to 1 kg/m²).

7. Joining with other airtightness systems
- If an area to be sealed with BLOWERPROOF® LIQUID BRUSH needs to be joined to another area sealed with a membrane, ensure that the membrane is securely fixed to the substrate according to the membrane manufacturer’s specifications, apply BLOWERPROOF® LIQUID BRUSH to cover the membrane fixing tape by a minimum of 50mm overlap. In case of insufficient membrane manufacturer’s specifications fixing the membrane is done by a combination of mechanical fixing and gluing. Alternatively, and depending on the situation, BLOWERPROOF® BUTYTAPE self-adhesive butyl tape is applied on the edge of the membrane before application of BLOWERPROOF® LIQUID BRUSH. Important Note Always test BLOWERPROOF® LIQUID BRUSH on a sample of the membrane to check adhesion. In case of doubt, consult the HEVADEX technical department.
- If an area to be sealed with BLOWERPROOF® LIQUID BRUSH needs to be joined with another area where airtightness is achieved with engineered wooden boards with taped seams any gap between the two areas needs to be treated as outlined in paragraph 4. If the joint is made between concrete or masonry structures and wooden framed walls or roofs that are subject to shrinking or other movements joint with BLOWERPROOF® BUTYTAPE butyl tape or a strip of a suitable airtight membrane formed as a stress relief loop.

8. Quality control :
- Check visually to ensure complete coverage; If needed, apply an additional coat.
- Thickness is verified with a wet film thickness gauge for each layer, to ensure minimum total coverage of 500 microns. In general, when the substrate is totally not visible anymore, the coverage of min. 500 micron is reached.
- Usage of wet film thickness gauge:
  o Identify level and smooth patches of substrate.
  o Select the appropriate side of the thickness gauge for thicknesses around 500 microns.
- Press the appropriate side auf the gauge into the wet film immediately after application

- Remove gauge and inspect the underside of the comb fingers. The last wetted finger indicates the wet film thickness value printed by this finger.

- Repeat the measurements to make a reasonable number of spot checks. As a rule of thumb one measurement should be taken for each 5m² of the coating.

- Clean gauge with water

### 9. DON’T’S:

- Do not apply BLOWERPROOF® LIQUID BRUSH on a polluted, friable or dusty substrate.
- Do not use BLOWERPROOF® LIQUID BRUSH as filler: fill joints and openings > 5mm with non-shrink gap-filling mortar, or non-shrink airtight polyurethane foam.
- Do not dilute BLOWERPROOF® LIQUID BRUSH with water or solvents; avoid contact with any type of liquid during drying.
- Do not leave the lid off the container for long periods, please re-seal immediately after use.
- Do not use a heat source at close range to aid drying.
- In case of damage to the BLOWERPROOF® LIQUID BRUSH coating after drying, simply restore by cleaning the surface of the coating with water and a lint-free cloth and re-applying an extra layer.
- DO NOT APPLY BLOWERPROOF® LIQUID BRUSH WHILST THE SUBSTRATE IS UNDER TEST PRESSURE: PRESSURE TESTING MUST ONLY BE CARRIED OUT ONCE BLOWERPROOF® LIQUID IS FULLY CURED

### 10. Storage:

- Store full un-opened containers in a dry frost-free environment between 5°C and 35°C, avoid direct sunlight or contact with a heat source.
- Seal part used containers by pushing down firmly in the centre of the lid when closing to expel air, ensure the lid is closed tightly.
- Do not use the product from damaged or broken containers.
- Shelf life: product will keep for 12 months from date of manufacture if kept according to these instructions in unopened containers. See batch number for date of production: dd/mm/yyyy (dd:day/mm:month/y:year/xx:product code).

### 11. Disposal:

- Please refer to product SDS information.

### 12. Other areas of use:

Pipe penetrations - Wall/ceiling connections - Window/wall connections - Walls

1. **Pipe penetrations:**
2. **Wall/ceiling connections:**

   ![Wall/ceiling connection image]

3. **Window/wall connections:**

   ![Window/wall connection image]

13. **General:**

   **Precautions:**
   Consult the Safety Data Sheet prior to application. Always work in well-ventilated areas. Avoid direct skin contact when product is in wet condition. You are advised to wear eye protection, face mask, gloves and safety wear during application.

   **Non-standard applications:**
   For all applications not addressed by these guidelines please contact the Hevadex technical department for advice.

   **Further advice:**
   This advice is based on the experience of the manufacturer “Hevadex” and its partners worldwide; for further information, please contact your local partner. Product sheets, safety data sheets and independent test reports are available on request.

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