



## TECHNICAL DATA SHEET (TDS)

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# PASSIVE PURPLE EXTERNAL BRUSH AND PASSIVE PURPLE EXTERNAL BRUSH EDITIONS | 2023



## 1. Product

**1.1 Production Description** Passive Purple External Brush is a ready to use coating based on specific pure acrylate polymer dispersions. After application with a paint brush, Passive Purple External Brush dries to a durable, flexible, watertight, and damp-open membrane.

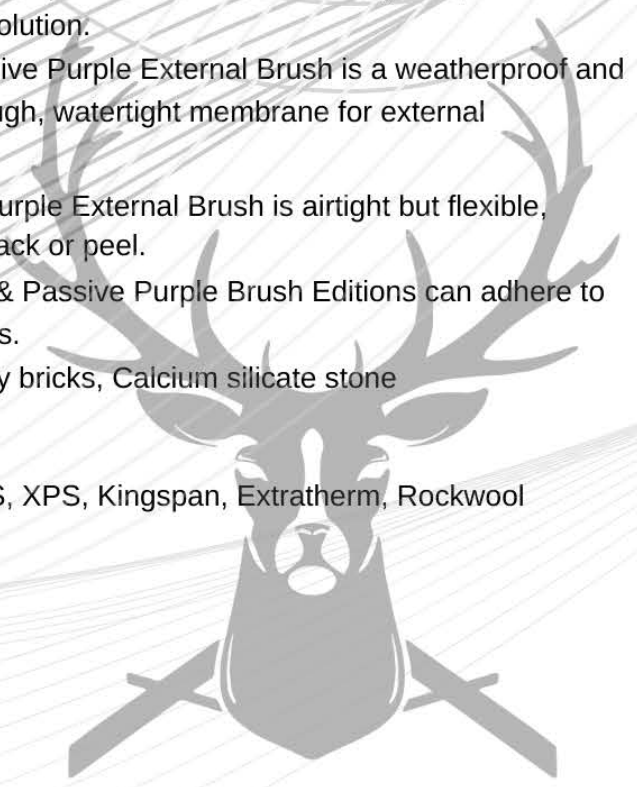
Passive Purple External Brush is most commonly applied ahead of Passive Purple External, our spray solution, to protect gaps, joints, connections, service penetrations, and corner junctions.

With its fibre reinforced polymer, Passive Purple External Brush can bridge gaps of up to 7-10mm. Ideally you want the structure to have as little gaps in as possible to save time and cost on materials. Once all connections, joints, boards, and penetrations are complete and located, simply use a firm paint brush to fill and seal over the gaps and joints. This alone will reduce air leakage an enormous amount leaving your final spray coat "if required" the icing on the cake. With a filler style technique and putty like consistency, Passive Purple External Brush is extremely easy and fast to apply with no surface or area a problem.

- \* **Vapour Open** – Passive Purple External Brush is both vapour open and watertight.
- \* **Easy Application** – All you need is a paint brush, and you're ready to apply Passive Purple External Brush.
- \* **Fire rated** – Passive Purple External Brush is a fire rated as Class B, keeping your building safe.
- \* **VOC Free** – Passive Purple External Brush is nasty free, as a water based and VOC free solution.
- \* **External Use** – Passive Purple External Brush is a weatherproof and UV resistant, super tough, watertight membrane for external facades.
- \* **Flexible** – Passive Purple External Brush is airtight but flexible, ensuring it does not crack or peel.

**1.2 Production Adhesion** Passive Purple Brush & Passive Purple Brush Editions can adhere to the following substrates.

- 1.2.1.** \* Concrete blocks, Clay bricks, Calcium silicate stone
- 1.2.2.** \* Fibre cement boards
- 1.2.3.** \* Insulation panel: EPS, XPS, Kingspan, Extratherm, Rockwool
- 1.2.4.** \* OSB, Plywood



### 1.3 Product Characteristics

- 1.3.1. \* Paste
- 1.3.2. \* Purple/Black/Anthracite/Cream/White ,Or any colour you want.
  - \* Consumption / m2: 0.75 kg / m2
- 1.3.3. \* Density (kg/l): 1.2-1.3
- 1.3.4. \* pH: 0.9-10.0
- 1.3.5. \* Solids (%): >50%
- 1.3.6. \* Temperature resistance after drying: -20 degree Celsius - + 70 degree Celsius
- 1.3.7.

### 1.4. Product Packaging

- 1.4.1. \* Tubs 5kg
- 1.4.2. \* Pallets 96 tubs of 5kg – Total 480kg

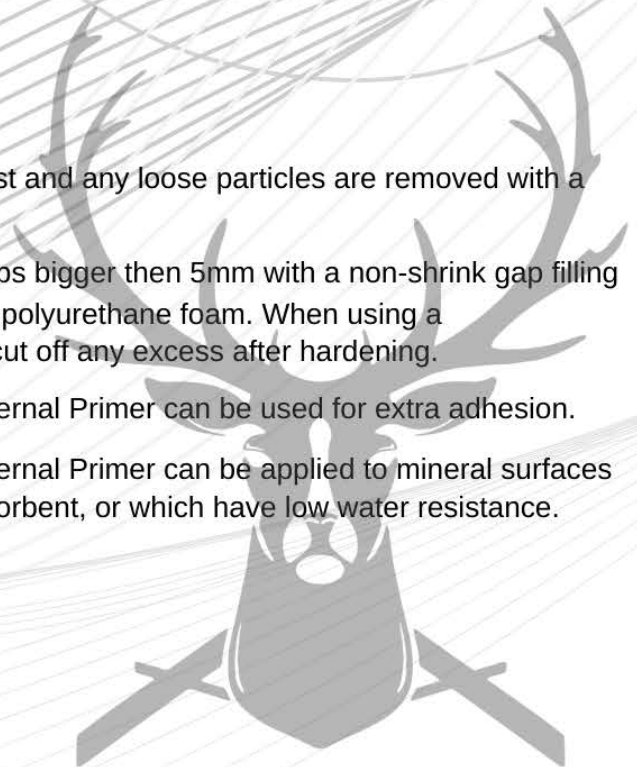
### 1.5. Product Storage

Passive Purple External Brush and Passive Purple External Brush Editions should be stored in the dry, out of direct sunlight, between 5-20 degrees Celsius. Storage for 12 months of manufacture date in original unopened packaging.

## 2. Application

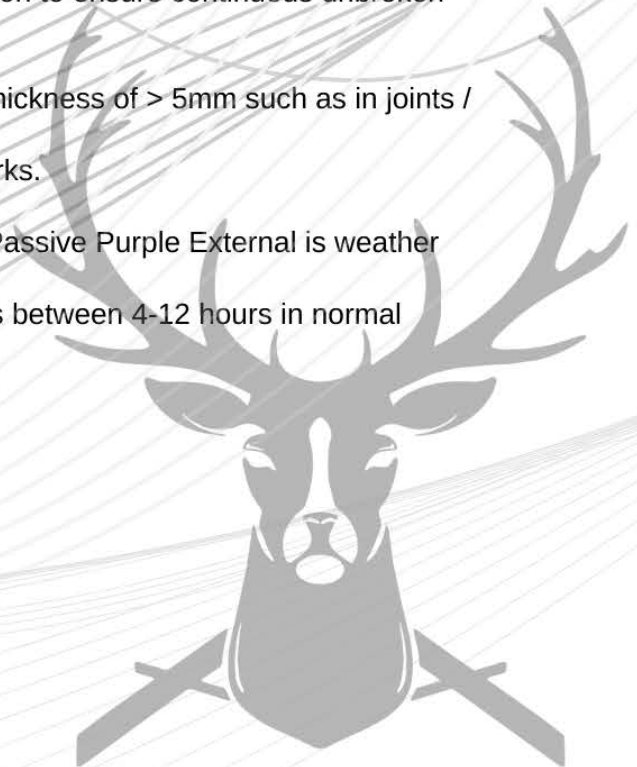
### 2.1. Preparation

- 2.1.1. \* Standing water, dust and any loose particles are removed with a vacuum cleaner
- 2.1.2. \* Fill any holes or gaps bigger then 5mm with a non-shrink gap filling mortar or non-shrink polyurethane foam. When using a polyurethane foam, cut off any excess after hardening.
- 2.1.3. \* Passive Purple External Primer can be used for extra adhesion.
- 2.1.4. \* Passive Purple External Primer can be applied to mineral surfaces which are highly absorbent, or which have low water resistance.



## 2.2. Application

- 2.2.1** \*When applying Passive Purple External Brush, we recommend the following PPE as a minimum.
- \* Suitable eye protection
  - \* Gloves
  - \* Face Mask (which cover the mouth and nose)
- 2.2.2.** \* Ready to use – don't add any water or solvents.
- 2.2.3.** \* Apply Passive Purple External Brush with a flat synthetic bristle brush in two layers
- 2.2.4.** \* Minimum requirements dur and at least 24 hours after application.
- Temperature > 5 degrees celsius, do not apply in full sunlight.  
Do not apply in the rain.
- 2.2.5.** \* Passive Purple External Brush can be applied both on dry and humid surfaces.
- 2.2.6.** \*Apply the second layer once the first layer has fully dried.
- 2.2.7.** \* Passive Purple External Brush should be worked well in using a smearing action to ensure continuous unbroken coverage.
- 2.2.8.** \* Avoid (local) layer thickness of > 5mm such as in joints / openings or pock marks.
- 2.2.9.** \* The drying time of Passive Purple External is weather dependant and varies between 4-12 hours in normal conditions.





**2.3.1** Wall connections.



**2.3.2.** External joists



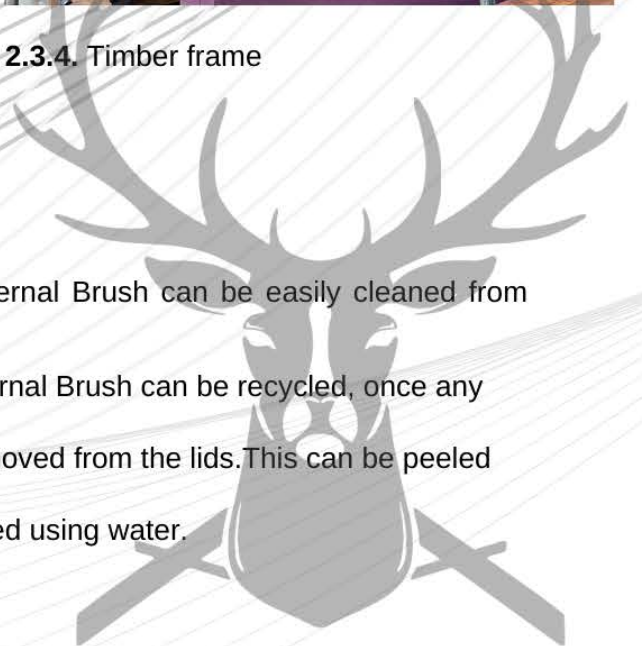
**2.3.3.** Timber frame.



**2.3.4.** Timber frame

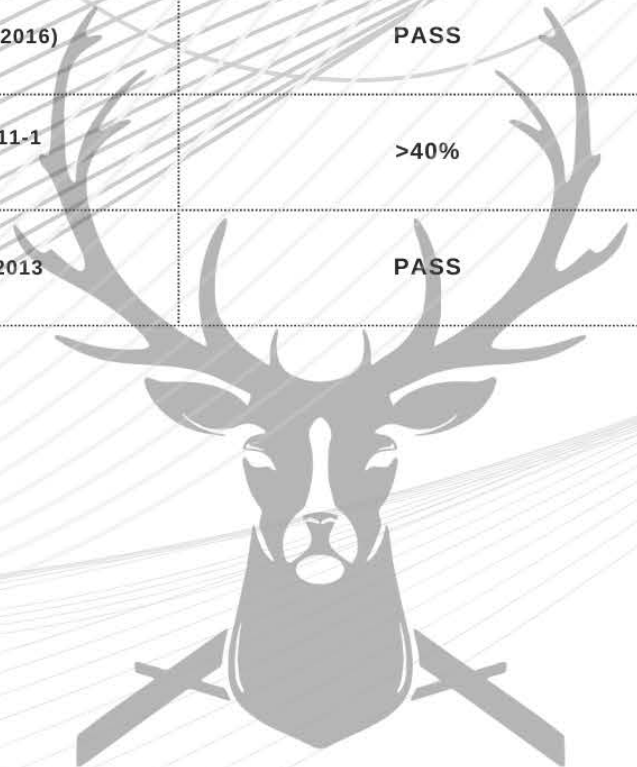
## 2.4. Cleaning

- 2.4. 1.** \* Passive Purple External Brush can be easily cleaned from brushes using water.
- 2.4. 2.** \* Passive Purple External Brush can be recycled, once any product has been removed from the lids. This can be peeled off when dry or cleaned using water.



### 3.0. Test report's

| TEST   | NORM                      | VALUE   |
|--|---------------------------|---|
| IMPERMEABILITY TO WATER  | NBN EN 16302 (2013)       | PASS  |
| VAPOUR PERMEABILITY  | EN ISO 12572              | M:2486<br>SD:0,6-1<br>SD VALUE:CALCULATED BASED ON A CONSUMPTION OF 0,6-0,8KG/M2            |
| CO2 PERMEABILITY   | EN 1062-6                 | SD>75 METRE(CLASS C1)<br>PASS ACCORDING EN1504-2  |
| AIRTIGHTNESS   | EN 12114                  | 0,03 M3/M2.H  |
| CRACK BRIDGING   | EN 1062-7                 | 23 DEGREES CELSUIS-PASS-CLASS A3<br>-10 DEGRESS CELSIUS-CLASS A4<br>PASS ACCORDING EN1504-2 |
| ADHESION ON MINERAL SURFACES AS CONCRETE BRICK(WITH USE OF PRIMER AS BONDING)                  | NBN EN ISO 4624 (2016)    | >1 N/MM2, PASS  |
| ADHESION OF PASSIVE PURPLE EXTERNAL BRUSH ON FIBRECEMENT BOARDS(WITH USE OF PRIMER AS BONDING) | NBN EN ISO4624 (2016)     | >1 N/MM2, PASS  |
| ADHESION OF PASSIVE PURPLE EXTERNAL BRUSH ON INSULATION BOARDS TYPE RECTICEL                   | NBN EN ISO4624 (2016)     | >1 N/MM2, PASS  |
| ADHESION OF PASSIVE PURPLE EXTERNAL BRUSH ON OSB WOOD (WITH USE OF PRIMER AS BONDING)          | NBN EN ISO4624 (2016)     | PASS  |
| ELONGATION AFTER AGEING  | NBN EN ISO 12311-1 (1999) | >40%  |
| UV- AND WEATHER RESISTANCE   | EN ISO 16474-3:2013       | PASS  |



| TEST   | NORM          | VALUE   |
|--|---------------|---------|
| ICC-NTA FLATWISE TENSILE STRENGTH<br>(PLYWOOD)       | ASTM C0297-16 | 188 PSI |
| ICC-NTA FIRETESTING                                  | ASTM E84-21A  | CLASS A |
| ICC-NTA FREEZE/THAW                                  | ASTM E2485-13 | PASS    |
| ICC NTA FLATWISE TENSILE STRENGTH<br>(CEMENT MORTAR) | ASTM C0297-16 | 186 PSI |
| ICC-NTA FIRETESTING                                  | ASTM E84-21A  | CLASS A |

**Safety; Consult the safety data sheet prior to application. Requested to wear eye protection, mouth mask, gloves and safety wear during spray application.**

**Always refer to the C.O.S.H.H sheet.**



## 4.0. Do's and don'ts

### DO'S

- 4.1. Do mix before use
- 4.2. Do use PPE according to the nature of work
- 4.3. Do clean up any spills in the area immediately to avoid slippery surface
- 4.4. Do use the drip tray when possible
- 4.5. Do store in a safe place away from freezing temperatures/extreme heats
- 4.6. Do recycle or clean and re-use empty tubs
- 4.7. Do use a wet film gauge to measure the thickness of the product
- 4.8. Do mask any surface areas you do not want to get hit from potential overspray
- 4.9. Do always follow H&S guidelines
- 4.10. Do always know where on site accident kit is kept in case of emergency
- 4.11. Do use a wet film gauge to verify the total consumption of 0,5-1kg/m<sup>2</sup> (0,500-1000 microns)
- 4.12. Do always read the product sheet for further instructions and guidance before application
- 4.13. Do seal tub back up after use

### DON'TS

- 4.14. Do not use under 5 degrees or temperatures expecting to drop below 5 degrees or freezing point within the next 24-48 hours
- 4.15. Do not use in the rain or when rain is expected within the next 24-48 hours
- 4.16. Do not mix/dilute with water or solvents
- 4.17. Do not consume
- 4.18. Do not use for anything else other than its intended purpose of an Airtightness and vapour control barrier i.e. Do not use as a waterproofing/tanking
- 4.19. Do not mix with any other products
- 4.20. Do not keep outside in cold temperatures/always store in a safe place
- 4.21. Do not use as a protection for windows (its permanent)
- 4.22. Do not differ from the product sheets or data advice





## 5.0 PASSIVE PURPLE EXTERNAL BRUSH GALLERY

### 5.1. Retrofit applications and Passive Purple Brush External preparation examples:



**5.1.2** Retrofit at the rear of property.



**5.1.3** Helping hand brackets painted with Passive Purple External Brush.



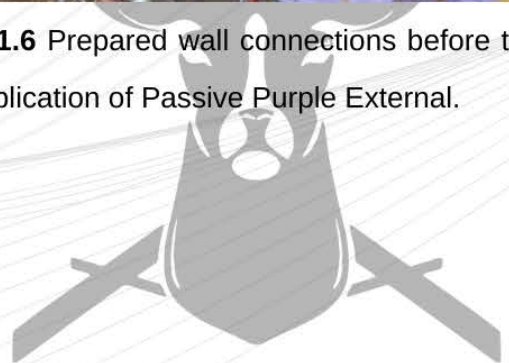
**5.1.4** Preparation work on a retrofit before the application of Passive Purple External.



**5.1.5** Preparing board joints before the application of Passive Purple External.



**5.1.6** Prepared wall connections before the application of Passive Purple External.



## 6.0. DATE OF THIS EDITION: 12/01/2023

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