



TECHNICAL DATA SHEET (TDS)

EXTERNAL FACADE WATERPROOF MEMBRANE
PASSIVE PURPLE[®] EXTERNAL AND EDITIONS |2023



1. Product

1.1. Product Description

Passive Purple External is a ready to use façade waterproof liquid membrane based on specific pure acrylate polymer dispersions, that after application with an airless spray device or roller, dries to a durable, flexible, watertight, UV resistant, and damp open membrane. It's even airtight to 0.03 ach!

***Cost effective** - Using an airless spray device, a single person can cover up to 300m² of facade paint protection in a single day! That's super-fast application.

***Easy application** - Passive Purple External can be easily applied with either an airless spray machine (like a Graco 595), or with a roller if you don't have a machine handy.

***External use** - Passive purple External is applied to the external facade to make a super tough watertight vapour control membrane for weatherproofing and UV resistance.

***Fire rated** - Passive Purple External is class B (EN13501) fire rated, for extra peace of mind.

***Breathable** - Passive Purple External lets in vapour where it's needed while also ensuring your facade is airtight.

1.2. Product Adhesion

Passive Purple External can adhere to the following substrates.

- 1.2.1. *Concrete blocks, Clay bricks, Calcium silicate stone
- 1.2.2. *Insulation panels; PIR, PUR, Polystyrene, kooltherm, glasroc x sheathing
- 1.2.3. *Plywood,

1.3. Product Characteristics

- 1.3.1. *Liquid
- 1.3.2. *Purple/ Black/ Anthracite- But Passive Purple External can be made into other colours on demand
- 1.3.3. *Total indicative consumption. Max 0.75 KG per m squared/ 0.625mm/625 microns
- 1.3.4. *Density (kg/l): 1, 2
- 1.3.5. *pH 9,
- 1.3.6. *Solids (%):> 50%
- 1.3.7. *Temperature resistance after drying: -20 degrees Celsius to + 70 degrees Celsius

1.4. Product Packaging

- 1.4.1. Tubs 10kg- 22.0462 lbs- 2.6417 gallons- 10 litres
 Tubs 11.4kg- 25.1327 lbs- 3.0116 gallons- 11.4 litres
- 1.4.2. Pallets 44 tubs of 10kg – Total 440kg
 Pallets 44 tubs of 11.4kg - Total 501kg

1.5. Product Storage

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

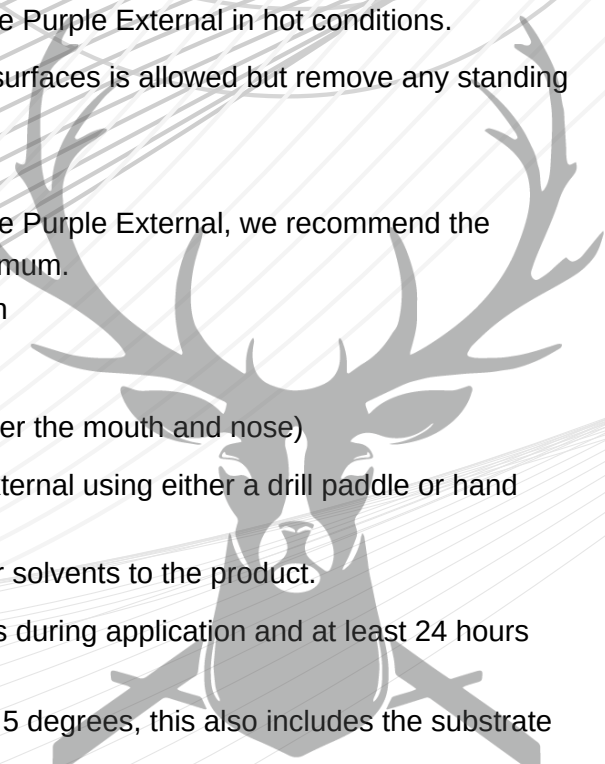
2. Application

2.1. Preparation

- 2.1.1. * Remove salt efflorescence, dust, loose parts and standing water.
- 2.1.2. * Passive Purple External is applied to a closed surface. If necessary, fill any holes or joints using a fast-setting cement-based product or a polyurethane foam.
- 2.1.3. * Passive Purple External Primer can be used for extra adhesion.
- 2.1.4. * Apply to porous and mineral based substrates and fibre cement boards. Low strength substrates such as calcium silicate stone. Water sensitive plasters.
- 2.1.5. * Will improve adhesion on dusty substrates
- 2.1.6. * When applying Passive Purple External in hot conditions.
- 2.1.7. * Application on humid surfaces is allowed but remove any standing water.

2.2. Application

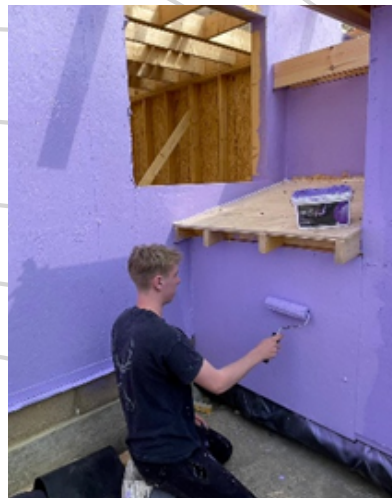
- 2.2.1. * When applying Passive Purple External, we recommend the following PPE as a minimum.
 - * Suitable eye protection
 - * Gloves
 - * Face mask (which cover the mouth and nose)
- 2.2.2. * Mix Passive Purple External using either a drill paddle or hand paddle.
- 2.2.3. * Don't add any water or solvents to the product.
- 2.2.4. * Minimum requirements during application and at least 24 hours after application.
- 2.2.5. * Minimum temperature 5 degrees, this also includes the substrate



- 2.2.9. * Do not apply in full sunlight
- 2.2.10. * Do not apply during rain
- 2.2.11. * Passive Purple External is applied with an airless spray device (Such as a Graco 595) or paint roller.
- 2.2.12. * Passive Purple External will need to be applied in 2 layers. The second layer being applied when the first layer has dried.
- 2.2.13. * Passive Purple External drying time is weather dependant and varies between 4 – 12 hours in normal conditions.
- 2.2.14. *Prior to application of any plaster product (Hard wall, dot and dab), Supergrip Primer MUST be used as an essential adhesion key.



2.2.15 Spray example



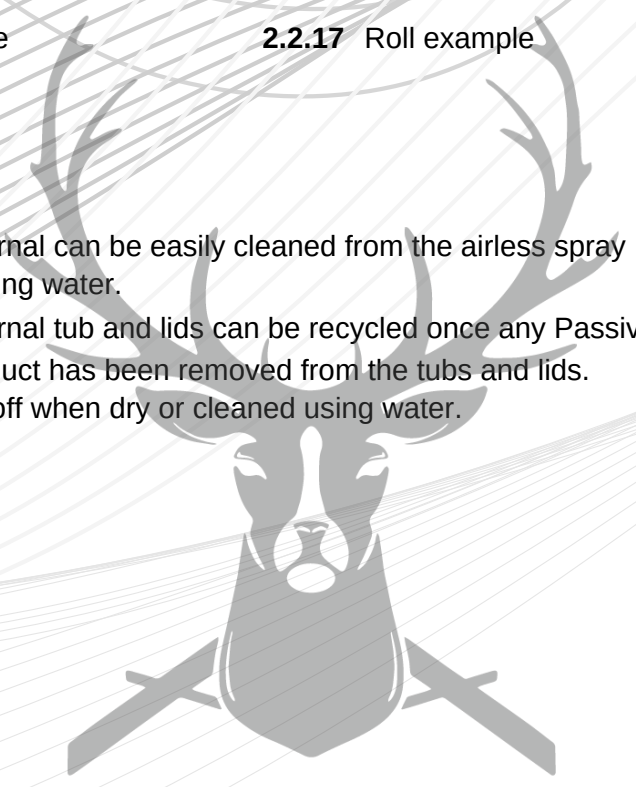
2.2.16 Roll example



2.2.17 Roll example

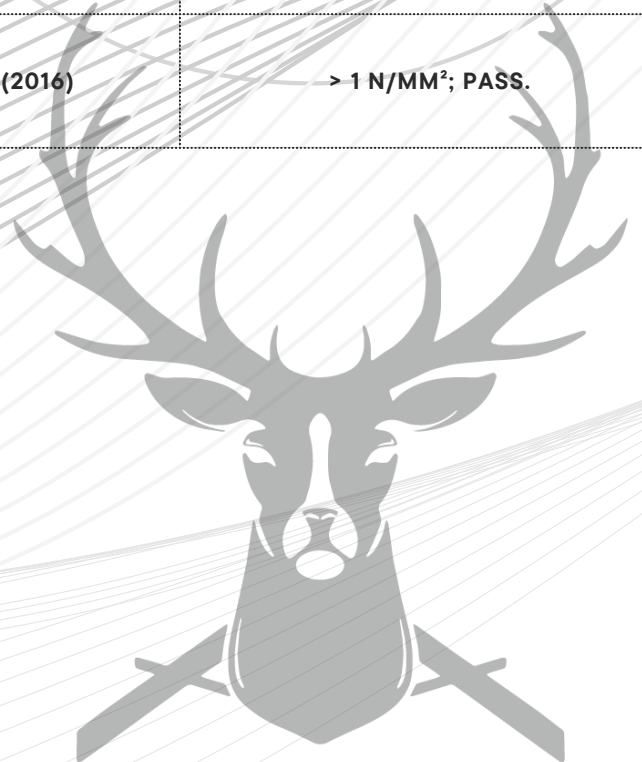
2.3. Cleaning

- 2.3.1. Passive Purple External can be easily cleaned from the airless spray devices or rollers using water.
- 2.3.2. Passive Purple External tub and lids can be recycled once any Passive Purple External product has been removed from the tubs and lids. This can be peeled off when dry or cleaned using water.



3.0. Test report's

TEST	NORM	VALUE (INDEPENDENT TEST REPORTS)
IMPERMEABILITY TO WATER	NBN EN 1062-3	W < 0,1KG/M2. H 95
VAPOUR PERMEABILITY (M)	EN ISO 12572	M: 2486 SD: 0,6-1 SD VALUE:CALCULATED VALUE BASED ON A CONSUMPTION OF 0,6-0,8KG/M2
CO2 PERMEABILITY	EN 1062-6	SD > 75 METER (CLASS C1) PASS ACCORDING EN1504-2
AIRTIGHTNESS SYSTEM WITH ROCKWOOL® PANELS ANCHORED ON/TROUGH PASSIVE PURPLE EXTERNAL MEMBRANE ON BLOCKWALL	EN 12114	0,03 M³/M².H
CRACK BRIDGING	EN 1062-7	23 DEGREES CELCIUS – PASS – CLASS A3 -10 DEGREES CELCUIIS -PASS-CLASS A4 PASS ACCORDING EN1504-2
ADHESION ON MINERAL SURFACES SUCH AS CONCRETE BRICK. (WITH USE OF PRIMER AS BONDING)	NBN EN ISO 4624 (2016)	> 1 N/MM²; PASS.
ADHESION OF PASSIVE PURPLE EXTERNAL ON FIBRE CEMENT BOARDS. (WITH USE OF PRIMER AS BONDING)	NBN EN ISO 4624 (2016)	> 1 N/MM²; PASS.



ADHESION OF PASSIVE PURPLE EXTERNAL ON PLYWOOD. (WITH USE OF PRIMER AS BONDING)	ASTN CO297	PASS.
ADHESION OF PASSIVE PURPLE EXTERNAL ON INSULATION BOARDS TYPE RECTICEL. (PIR, PUR, KOOLTHERM, GLASROC	NBN EN ISO 4624 (2016)	PASS.
ELONGATION AFTER AGEING	NBN EN ISO 12311-1 (1999)	>40%
UV- AND WEATHER RESISTANCE	EN ISO 16474-3:2013	PASS
RESISTANCE TO FIRE CLASS	EN13501	B, S1, D0
WATER VAPOUR TRANSMISSION	ASTM E96	SD < 1.0

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.



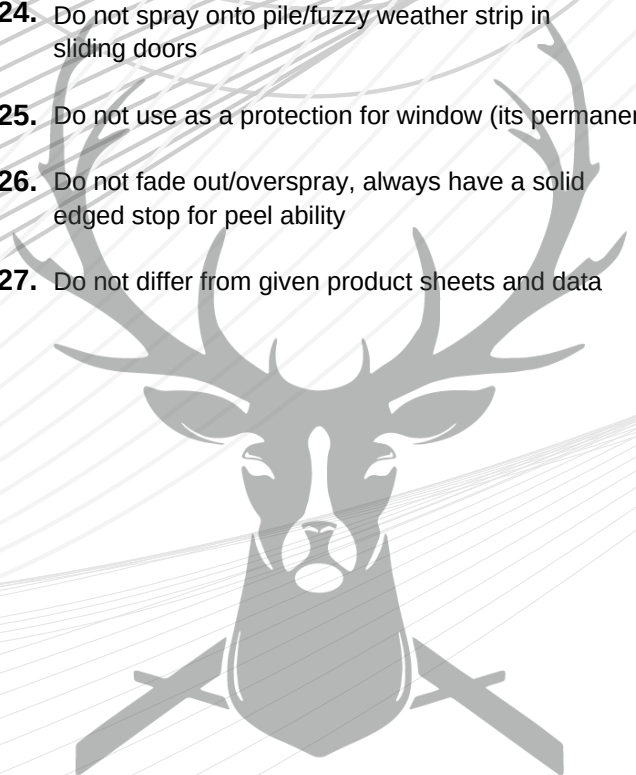
4.0. Do's and don'ts

DO'S

- 4.1. Do ALWAYS use Supergrip primer
- 4.2. Do use appropriate PPE according to the nature of the work
- 4.3. Before using a new/different product completely drain or bleed and flush lines or equipment from previous products
- 4.4. Clean up any spills in the area immediately to avoid slippery surface
- 4.5. Use the drip tray when possible
- 4.6. Do use the correct tip size and pressure suited to the person spraying the product and the product itself
- 4.7. Store in a safe place away from freezing temperatures/extreme temperatures.
- 4.8. Do recycle or clean and re-use empty tubs
- 4.9. Do mask any surfaces areas you do not want to get hit from potential overspray
- 4.10. Do always follow H&S guidelines
- 4.11. Do always know where on-site accident kit is kept in case of emergency
- 4.12. Do always read the product sheet for further instructions and guidance before application
- 4.13. Do seal tub back up after use
- 4.14. Do use a wet film gauge to verify the total consumption of 0,75 kg /m2 (0.625 microns) see product sheet for further details
- 4.15. Do mix before use

DON'TS

- 4.16. Do not use under 5 degrees temperature expecting to drop below 5 degrees or freezing point within the next 24-48 hours
- 4.17. Do not use in the rain or when rain is expected within the next 24-48 hours
- 4.18. Do not mix/dilute with water or solvents
- 4.19. Do not consume
- 4.20. Do not use for anything else other than its intended purpose of a airtightness and vapour control barrier i.e. Do not use as a waterproofing/tanking
- 4.21. Do not mix with any other products
- 4.22. Do not spray LESS than the guided amount of at least 0.75kg/m2 or 0.625 microns verify with wet film gauge
- 4.23. Do not keep outside in cold temperature/always store in a safe place
- 4.24. Do not spray onto pile/fuzzy weather strip in sliding doors
- 4.25. Do not use as a protection for window (its permanent)
- 4.26. Do not fade out/overspray, always have a solid edged stop for peel ability
- 4.27. Do not differ from given product sheets and data



5.0 PASSIVE PURPLE BRUSH EXTERNAL GALLERY

5.1. Retrofit project examples:



5.1.2 Retrofit



5.1.3 Retrofit



5.1.4 Retrofit- Passive Purple installed insulation

5.2. Timber frame projects:



5.2.1. Timber frame

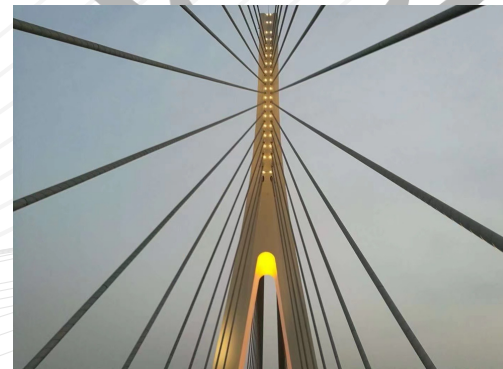


5.2.2. Timber frame

5.3. Big projects



5.3.1 External masonry work on bridge



5.3.2 External masonry work on bridge

6.0. DATE OF THIS EDITION: 15/03/2023

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