

Mapeplan® ADS 310



One component solvent adhesive for double coating (contact adhesive), to bond FPO/TPO synthetic waterproofing membranes Mapeplan® T, supplied in pressurized canister for spray application.

APPLICATION FIELDS

Realization of bonding on flat roofs, adhesion to vertical up stands on perimeters, walls, kerbs around rooflights, chimney's and plant supports. For use in combination with FPO/TPO **Mapeplan® T** membranes and fleece-backed membranes.

Some examples of application

Fully bonding of synthetic waterproofing membranes **Mapeplan® T** and fleece-backed membranes, on vertical, horizontal and sloping surfaces and substrates suitable, such as:

- cement plasters;
- cement slabs and substrates;
- concrete screed lightened with EPS pearls or expanded clay⁽¹⁾;
- PUR/PIR insulation boards and panels coated with glass fiber or aluminum foils;
- wooden planking, multilayer wood (Plywood), oriented strand board (OSB);
- gypsum board;
- metal sheets;

In case of doubt we recommend to do preliminary tests to verify the compatibility and the adherence to the substrate.

⁽¹⁾ Substrates suitable only for fleece backed membrane

TECHNICAL CHARACTERISTICS

Mapeplan® ADS 310 is a fast tack double coating adhesive based on elastomeric rubber supplied in pressurized canister ready to use for airless application.

Mapeplan® ADS 310 has an ergonomic working position for speed, easy and professional application. It is easily applied on horizontal, vertical and slope surfaces.

Mapeplan® ADS 310 is the specific adhesive for FPO/TPO **Mapeplan® T** waterproofing membranes it can be used with plan membranes **Mapeplan® T B** and **Mapeplan® T M** and with fleece-backed membrane **Mapeplan® T Af**.

After curing it achieves high adhesion and elasticity. The temperature and ageing resistance are excellent.

Appearance	Neutral
Temperature Resistance	-30/+85 °C
Coverage	75-100 m ² *
Tack-Life	4-30 minutes
Application Temperature	+5/+30 °C
Storage Temperature	+5/+25 °C

* Each canister will cover up to 75-100m² of bonded area, consumption depends on the quality and absorption of the surfaces. On very porous substrates a double application may be necessary.

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RECOMMENDATIONS

- Apply **Mapeplan® ADS 310** according to instructions and warnings indicated.
- Apply **Mapeplan® ADS 310** on suitable, compact, smooth and regular substrates and surfaces.
- Do not apply **Mapeplan® ADS 310** on dusty, friable and inconsistent surfaces.
- Do not apply **Mapeplan® ADS 310** on damp or wet substrates.
- Do not apply **Mapeplan® ADS 310** on surfaces contaminated by oils, grease or dirt.

APPLICATION PROCEDURE

Preparation of substrate

The cement surfaces must be clean and free of loose materials, nibs and hollows and as smooth as possible.

Insulation boards and panels must be dimensionally stable and compressive resistant, they must be laid flat without steps at the joints. To resist the force of the wind up-lift the boards must be secured independently to the substrate with approved fixings or bonding systems.

Wooden planking must be smooth, dimensionally stable, correctly fixed with screws, coil or ring shanked nails, the fixings must not protrude the surface of the boards.

If a protection treatment for the wood is required, it must be done before the application of **Mapeplan® ADS 310**. The surface must be dry and non-greasy. Treatment that forms a film or a barrier must not be used. To compensate movements and expansions at the joints of the wooden panels, make suitable "pontage", for example with paper adhesive tapes (not necessary for fleece-backed membranes).

Metal sheets must be clean, free of oil and grease, if required, clean and degrease with suitable solvent, such as **Mapeplan® T Seam Prep** for example.

Metal sheets must form a continuous support, must not show threads and sharp burr edges which could damage the waterproofing membrane. To compensate movements and expansions at the joints of the metal sheets, make suitable "pontage", for example with paper adhesive tapes (not necessary for fleece-backed membranes).

Before applying **Mapeplan® ADS 310** make sure that the substrate is dry, free from dust, dirt and loose materials.

Preparation of product

Prepare the spray gun and the pressurized canister as indicated below in the specific chapter "Instructions for the preparation and use of the canister".

Mapeplan® ADS 310 is ready for use.

Canister must be shaken from side to side for at least 30 seconds before the use.

Application of product

Mapeplan® ADS 310 is applied using the specific spray gun, keeping the gun approximately 20-30 cm away from the surface area being sprayed.

Double coating bonding - contact adhesive

Apply the **Mapeplan® ADS 310** adhesive to both surfaces, the support and the waterproofing membrane a continuous layer making sure to distribute it uniformly on the whole surfaces to be coated, one surface applied vertically and the other surface applied horizontally.

Wait a few minutes, from a minimum of 4 to a maximum of 30 minutes, to allow the solvent to evaporate. Ensure the adhesive is dry to the touch. Apply the waterproofing membrane on the support and press uniformly with a roller.

Achieve bonding within 30 minutes from application of **Mapeplan® ADS 310**. Initial bond is achieved immediately upon contact. Full bond is achieved in 24 hours.

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Attention:

After application it will not be possible to remove the waterproofing membrane without damage to the membrane or substrate surface.

The spread rate depends on the quality and the absorption of the support.

Curing time depends on temperature and environmental conditions.

When the product dries on the surfaces it can only be removed mechanically.

Mark the bonding area on the waterproofing membrane to avoid applying glue to welding areas.

Directions for preparation and application

Do not apply **Mapeplan® ADS 310** in case of oncoming rain.

Do not apply on wet or damp surfaces as the adhesion of **Mapeplan® ADS 310** may be reduced or compromised.

Recommended temperature of application is between +5 °C and +30 °C.

We suggest to stock **Mapeplan® ADS 310** inside the building and bring it to the roof when it is used.

CANISTER SET-UP GUIDE

It is important to set-up your **Mapeplan® ADS 310** canister adhesive and the spray-system correctly before use, to ensure the best possible performance and to avoid leakage or system failure (refer to images 1, 2, 3, 4).

- Remove the black cap from the canister valve.
- Attach the braided-hose to the canister valve (using the small nut). Tighten with a spanner.
- Attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner.
- Using the locking-nut provided, attach the spray-tip to the end of the spray-gun. Carefully tighten the spray-tip using a spanner.
- Fully open the valve on the canister.
- Pull the trigger on the spray-gun to apply the adhesive.
- Adjust the spray pattern by turning the valve on the spray-gun anti-clockwise until you have a spray pattern approximately 300 mm in width.
- We recommends using a test surface prior to application.



Image 1 - Canister with the braided-hose attached properly.



Image 2 - Braided-hose and spray-gun



Image 3 - Attach the spray-tip.



Image 4 - Valve to adjust spray pattern

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MAINTENANCE GUIDE

Maintaining your **Mapeplan® ADS 310** canister adhesive (the spray-system) (refer to images 5, 6, 7).

- Once work has been completed, ensure the valve on the canister remains open. Failure to do this may cause the adhesive to block the hose.
- Turn the spray-gun off by turning the valve clockwise until it is fully closed.
- Unscrew the spray-tip and locking nut from the spray-gun.
- Clean the spray-tip and the end of the spray-gun with suitable solvent such as **Mapeplan® T Seam Prep** for example using a soft nylon brush to ensure that the aperture is clear. This is essential. Failure to clean the spray-tip and the end of the spray-gun may result in damage to the aperture and prevent the system from working.
- Place the spray-tip and locking-nut in a container with a small amount of suitable solvent until it is needed again. Ensure the container is closed and airtight.
- The canister and gun will remain usable for three months after opening.
- Once canister in use is empty, the gun/hose can be transferred to a new canister. Open the valve on the new canister and purge the adhesive/primer through the hose and gun, the new canister will be ready to use.

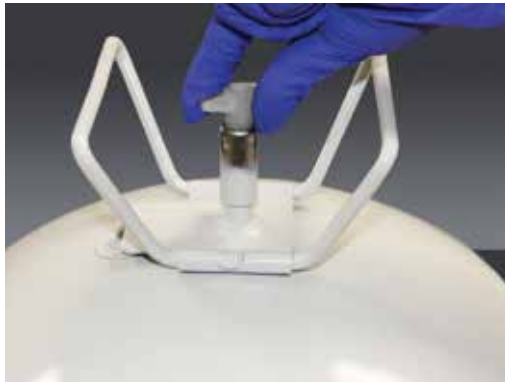


Image 5 - Leave the valve open



Image 6 - Cleaning the spray-tip



Image 7 - Spray tip in solvent

EMPTYING AND DISPOSAL OF YOUR CANISTER IN SAFETY

The canisters can be disposed of as scrap metal, when depressurized and emptied, in accordance with the European Waste Directive. Please refer to the following instructions on how to empty, depressurize and dispose of your canister safely.

Dispose the canisters in accordance to the national regulations in force. They can be disposed as empty depressurized canisters after the instructions for emptying and depressurizing your canister have been followed, or they can be disposed as canisters under pressure containing adhesives

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INSTRUCTIONS ON HOW TO SAFELY EMPTY AND DEPRESSURIZE THE CANISTER

Please refer to the following instructions on how to empty and depressurize the canister safely. (refer to images 8, 9, 10, 11).

- Transfer the hose and gun onto a new canister (if you are not using a new canister, flush the hose and gun using the flushing system and aerosol).
- Open the valve on the new canister and purge the adhesive/primer through the hose and gun, the new canister will be ready to use.
- Open the valve at the top of the used canister and empty any remaining adhesive and propellant into a suitable container (see image 8).
- Ensure the valve remains open. Leave for at least 1 hour.
- Locate the bursting disk at the top of the empty canister (see image 9).
- Use a non-ferrous rod and mallet to strike the bursting disk at its perimeter and remove it (see image 10).
- Remove the disk, which will reveal an opening. This will ensure that the canister remains depressurized (see image 11).
- Leave for 24 hours to allow any residue adhesive to dry and/or cure.

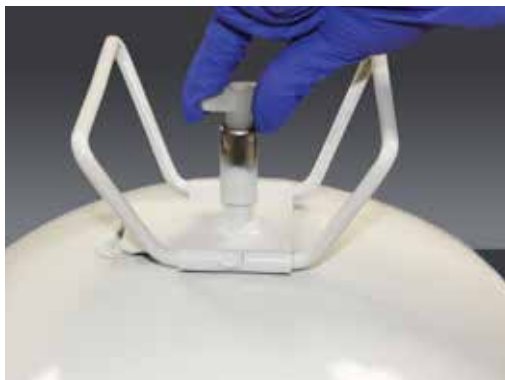


Image 8 - Open the canister valve

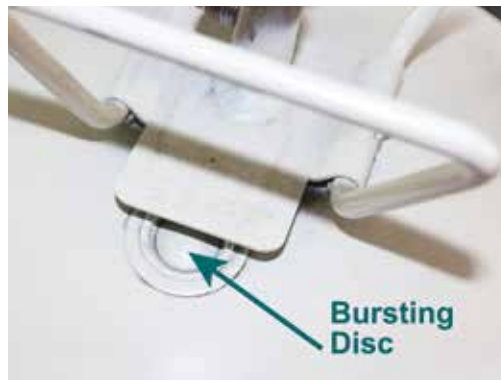


Image 9 - Locate the rupture disk



Image 10 - Remove the rupture disk



Image 11 - Depressurized canister

CONSUMPTION

Consumption depends on the quality and absorption of the substrate. A 22 liters canister is normally sufficient for cover a surface of 75 m² to 100 m².

PACKAGING

Mapeplan[®] ADS 310 is supplied in a 22 liters canister pressurized, for application with spray gun.

STORAGE

May be stored for 12 months if stocked closed in dry site, away from heat, at temperatures between +5 °C and +25 °C. The adhesive will have a limited life once the container is opened. Store the product at the temperature between +10 °C and +30 °C for 24 hours before the use.

We suggest to store the product inside and bring it on the roof only for the application.

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INSTALLATION TOOLS

- Short Detail Gun suitable for Mapeplan® ADS 310 (to be ordered separately)



- Long Gun suitable for Mapeplan® ADS 310 (to be ordered separately)



- Hose for connection between canister and spray gun suitable for Mapeplan® ADS 310, length 4 m (to be ordered separately)



SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeplan® ADS 310 is irritating to eyes and skin. We recommend to use gloves and goggles and the normal caution procedures when using chemical products. In case the application is indoor, make sure to ventilate adequately the environment.

The product is easily flammable: keep away from unguarded flame, sparks and heat sources.

Mapeplan® ADS 310 is toxic to aquatic organisms: do not dispose it in environment. For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

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PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet and of the Safety data Sheet available from our web site www.polyglass.com.

**Mapeplan®
ADS 310**



www.mapei.com

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