

Mapeplan[®] ADS 100

Solvent free polyurethane monocomponent adhesive for bonding Mapeplan synthetic waterproofing membranes with non-woven polyester fleece backing, PVC-P Mapeplan Af and TPO/FPO Mapeplan T Af

APPLICATION FIELDS

For use on flat, sloping or pitched roof applications. Fully adhered or strip bonded on exposed **Mapeplan[®] Af** and **Mapeplan[®] T Af** membrane systems.

Some examples of application

Fully or strip bonding of synthetic waterproofing membranes **Mapeplan[®] Af** and **Mapeplan[®] T Af**, on to horizontal or sloping substrates such as:

- cement slabs and concrete substrates;
- concrete screed lightened with EPS or expanded clay;
- EPS & XPS insulation panels;
- PUR & PIR insulation panels coated with glass fiber and with aluminium laminated;
- aged bituminous membranes;
- wooden planking, multilayer wood (Plywood), oriented-fiber wood (OSB).

TECHNICAL CHARACTERISTICS

Mapeplan ADS 100 is a solvent-free monocomponent adhesive based on polyurethane resin.

Mapeplan ADS 100 has a low viscosity.

It is easily applied on horizontal and sloping surfaces.

Mapeplan ADS 100 is the specific adhesive for **Mapeplan[®] Af** and **Mapeplan[®] T Af** waterproofing membranes.

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

RECOMMENDATIONS

Never thin **Mapeplan ADS 100** with solvents. Do not apply **Mapeplan ADS 100** directly on dusty, friable and inconsistent surfaces. Do not apply **Mapeplan ADS 100** on surfaces contaminated by oils, grease, or dirt. Apply **Mapeplan ADS 100** on compact, smooth and regular surfaces and substrates.

APPLICATION PROCEDURE

Preparation of substrate

The concrete and lightened concrete screed surfaces to be treated must be clean and as smooth as possible, free of loose materials, nibs and hollows.

Insulating boards and panels must be laid flat without steps at the joints. To resist the force of wind uplift the boards must be secured independently to the supporting substrate with approved mechanical fixings or bonding systems.

During refurbishment of existing bituminous roof systems, cut out all existing blisters or slit and reseal blisters leaving the surface as smooth as possible, free from loose or dirty areas. On roofs with aluminium or painted surfaces it is recommended a pre-bond test be carried out to assess the adhesion strength and

TECHNICAL DATA (typical values)	
IDENTIFYING DATA OF THE PRODUCT	
DESCRIPTION	
Polyurethane monocomponent adhesive without solvents	
USE	
Bonding non-woven fleece-backed synthetic waterproofing membranes PVC-P Mapeplan[®] Af and TPO/FPO Mapeplan[®] T Af on various substrates	
CHARACTERISTICS	
Aspect	coloured liquid
Solid content (%):	100
Density (g/cm ³):	about 1.20
Supply viscosity (mPa·s):	1700 ± 300 (needle 4 - 50 rpm)
APPLICATION DATA (at +23°C - 50% U.R.)	
Recommended temperature application:	+5°C ÷ +40°C
Open time (min.):	35-45
Set time (min.):	50-60
End of set time (min.):	100-120
Temperature of use:	-20°C ÷ +80°C

compatibility of the glue with the coating. Wooden planking must be smooth, dimensionally stable without springing, correctly fixed with screws, coil or ring shanked nails (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 100**. The surface must be dry and non-greasy before the application of the adhesive. Treatments that form a film or create a barrier must not be used.

Before applying **Mapeplan ADS 100** make sure that the substrate is free from dust, dirt and loose materials.

Preparation of product

Mapeplan ADS 100 is ready for use. Mix before application.

Application of product

Mapeplan ADS 100 is applied by roller or rubber squeegee directly onto the support. Apply on the support a continuous layer of **Mapeplan ADS 100** making sure to distribute it uniformly on the whole surface to be coated.

When the adhesive is still wet, before it starts to make a surface film, unroll **Mapeplan[®] Af** or **Mapeplan[®] T Af** waterproofing fleece backed membrane.

Press down the surface of the **Mapeplan[®]** membrane with a water filled roller.

Mapeplan ADS 100 must impregnate the woven-non-woven fabric.

After application, do not raise or remove the waterproofing membrane as the adhesion may be reduced or compromised.

The spread rate to be used depends on the quality and the absorption of the support. Curing time depends on environmental conditions.

Under particular application conditions (for example slopes > 5°C, windy areas, etc.) it may be advisable to temporarily mechanically fix the **Mapeplan[®] Af** or **Mapeplan[®] T Af** membrane, until the adhesive has not started to grip.

Directions for preparation and application

Do not apply **Mapeplan ADS 100** in case of oncoming rain.

Do not apply on wet or humid surfaces as the adhesion of **Mapeplan ADS 100** may be reduced or compromised.

Do not apply **Mapeplan ADS 100** onto a greater surface than the curing time of the adhesive allows.

Recommended temperature of application is between +5°C and +40°C.

Cleaning

The tools used during application must be cleaned before the adhesive dries using

Mapeplan Cleaner.

When the product dries it can only be removed mechanically.

CONSUMPTION

Consumption depends on the quality and absorption of the support, approximately from 0.3 to 0.6 kg/m².

PACKAGING

Mapeplan ADS 100 is supplied in 12 kg metal drums.

STORAGE

Mapeplan ADS 100 may be stored for 12 months if stocked in dry site, away from heat, at temperatures between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeplan ADS 100 may irritate eyes and skin. Repeated contact with skin may also cause rashes and irreversible damage to individuals allergic to isocyanates. Avoid contact with the skin and eyes and always use protective gloves and goggles when

preparing and applying the product. Use in well-ventilated environments. If the product is used at temperatures above +60°C it may become hazardous and have a sensitising effect if inhaled. Seek medical attention in the case of sickness or drowsiness.

For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

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, available from our web site www.polyglass.com

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ADS 100

(GB) A.G. BETA

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