

Monarplan

Single-ply PVC roofing membranes

- **Monarplan FM** for UV exposed roofs
- **Monarplan G** for heavy ballasted roofs or roof gardens



▶ Lightweight solution

▶ Suitable reinforced PVC membrane for various types of roof:

- Monarplan FM with polyester reinforcement, UV resistant for exposed roofs
- Monarplan G with glass-fleece reinforcement, micro-organism resistant for heavy ballasted roof or roof garden

▶ Flexibility of membranes suitable for a variety of roof shapes

▶ Smooth aspect of the surface to meet all aesthetic concerns of architects and building developers

▶ Hot-air welding and flame-free application

▶ Large-width rolls (up to 212cm wide) for fast application

▶ A comprehensive range of accessories: walkways (Monarplan W), angles, profiles, etc.

Main uses

Range of single-ply waterproofing systems:

- **Monarplan FM** for mechanical fixings on UV exposed roofs.
- **Monarplan G** on heavy ballasted roofs or roof gardens.
 - for non-accessible roofs with low slope ($\geq 1\%$) including utility areas;
 - on substrates in concrete, autoclaved cellular concrete, steel-deck, timber or wood derivative boards;
 - on insulation boards: complying with supplier's technical documentation & local regulations;
 - on new roof construction or in reroofing;
 - on premises with low, medium or high hygrometry.

Packaging

Monarplan FM 1.2: rolls of 2,12m x 20m each
Monarplan FM 1.2: rolls of 1,50m x 20m each
Monarplan FM 1.2: rolls of 1,06m x 20m each
Monarplan FM 1.5: rolls of 2,12m x 15m each
Monarplan FM 1.5: rolls of 1,50m x 15m each

Monarplan FM 1.2 / 1.5:
 pallet of 15 rolls each

Monarplan G 1.2: rolls of 2,12m x 20m each
Monarplan G 1.5: rolls of 2,12m x 15m each
Monarplan G 1.8: rolls of 2,12m x 15m each

Monarplan G 1.2 / 1.5 / 1.8:
 pallet of 15 rolls each

Monarplan W: rolls of 1,06m x 20m each
Monarplan D: rolls of 1,50m x 20m each

Monarplan W: pallet of 12 rolls each
Monarplan D: pallet of 15 rolls each

Monarplan

Description

Product	Minimum thickness (mm)	Colour	Reinforcement	Use
Monarplan FM 1.2	1.2	Grey ⁽¹⁾	PY	Main area & upstands
Monarplan FM 1.5	1.5	Grey ⁽¹⁾	PY	Main area & upstands
Monarplan G	1.5 ⁽²⁾	Grey	Glass-fleece	Under ballasted roof or green roof
Monarplan D	1.5	Grey	-	Non-reinforced membrane for detailing
Monarplan W	1.5 ⁽³⁾	Dark grey	PY	Structured surfacing for walkways

⁽¹⁾ Other colours available on request (consult us)

⁽²⁾ Monarplan G: other thicknesses on request

⁽³⁾ Thickness of basic membrane: 1.5mm ; overall thickness: 2mm

Performances

Product	Tensile strength	Elongation at first break	Nail tearing strength	Static puncture
Monarplan FM 1.2	≥ 1150N/5cm	≥ 15%	≥ 325N	≥ 20kg
Monarplan FM 1.5	≥ 1210N/5cm	≥ 15%	≥ 500N	≥ 20kg

Product	Tensile strength	Elongation at first break	Tearing strength
Monarplan G 1.5	≥ 8N/mm ²	≥ 200%	≥ 100N
Monarplan D	≥ 10N/mm ²	≥ 350%	≥ 180N
Monarplan W	≥ 1150N/mm ²	≥ 15%	≥ 325N

Chemical resistance

Monarplan membranes must not be in direct contact with:

- bitumen, oil, petrol or tar (to avoid any contact with bitumen, use a chemical separating layer: Geofelt ACM 300);
- EPS insulation boards (use a chemical separating layer: Geofelt ACM 300 or Verecran 100);
- in case of any other chemical agents : consult the list of chemical compatibility.

Complementary information

Monarplan Installation Manual.

European Technical Assessment (n° 08/0379) for Monarplan FM.





Accessories	Description	Use	Packaging
Monarplan D	Non-reinforced membrane 1.5mm thick Colour: grey	For detailing: (reinforcement for curved shapes)	Roll of 1.40 x 20m
Monarplan W	Reinforced membrane with structured surfacing 1.5mm thick Colour: grey	For walkways	Roll of 1.06 x 20m
Monarplan Inside Corner / Monarplan Outside Corner	Pre-moulded corner, 1.5mm thick Colour: grey	To reinforce internal & external corners with no cutting required	Cardboard of 25 units
Monarplan PVC laminated steel sheet	Steel sheet laminated with PVC Colour: grey	Fabrication of edge details, upstands, flashings, eaves	Sheets of 1 x 2m
Monarplan 1220 Contact Glue	Contact glue made of mono-component nitrile rubber	Upstands and details	Cardboard with 6 cans of 1kg each
Monarplan THF Welding Solvent	THF (tetrahydrofurane) based solvent	Chemical cold welding	Cardboard with 6 cans of 1.25l each
Monarplan PVC Liquid Paste	PVC liquid paste mixed with (tetrahydrofurane) Colour: grey	Finishing of weldings	Cardboard with 6 cans of 1.25l each
Monarplan PE Bottle	Empty plastic bottle with thin nozzle	Application of Monarplan PVC Liquid	Cardboard with 10 bottles of 250ml each
Monarplan Cleaner	Cleaner made of ethyl acetate mixed with acetone	Cleaning of tools & accessories	5l can
Verecran 100	100g/m ² glassfleece	Separating layer or dust protecting layer according to the substrate (EPS, wood, perlite)	Roll of 1 x 50m or 1 x 100m
Geofelt ACM 300 geotextile	300g/m ² non woven polypropylene	Separating layer according to the substrate (bitumen, masonry)	Roll of 2.5 x 100m
Ceceal underlay	Aluminium laminated glass mat	Vapour control layer on perforated steeldeck	Roll de 1 x 200m

Safety

- Monarplan 1220 Contact Glue;
- Monarplan THF Welding Solvent;
- Monarplan PVC Liquid Paste;
- Monarplan Cleaner.

Products rated flammable and irritating (F and Xi) according to the European Directive 67/548.

These products are subject to safety data sheets (MSDS) issued by Siplast-Icopal according to the European regulations 1907/2006 (REACH). The applicator needs to have them in his possession in order to be warned of hazards and precautions to take.

These MSDS safety data sheets available on request at Siplast-Icopal or can be downloaded from our website:

www.siplast-international.com/MSDS

- Monarplan FM;
- Monarplan D;
- Monarplan W;
- Verecran 100;
- Geofelt ACM 300;
- Ceceal.

These products are not rated dangerous (for the applications described in this document).

This document is only a guide. Siplast-Icopal reserves the right to change the composition and fixing recommendations of products as a result of evolution of knowledge and technology.

