



## Monarplan® LA

Comes with anti-ageing layer,  
adding years of life to your roof



# Icopal and durability

As a company, Icopal is proud of its strong durable credentials, actively promoting the recycling of its products whenever possible, in order to minimize the use of raw materials and energy in the development and production of roofing and waterproofing solutions. At the same time, we always look for possibilities to extend the lifetime and quality of our products.





# Extend the lifetime of your roof with Monarplan® LA

The Monarplan® LA membrane is a PVC membrane that provides you with the same quality you are used to with the Monarplan® range. However, in Monarplan® LA the PVC membrane is covered by a laquering “Teflon” type layer that will act as a protective layer.

- Enhanced durability
- Lasting colours bring added (aesthetic) value to your building
- Smooth surface ensures the reduction of possible soiling
- Reflection values stay high for white coloured membranes (cool roof effect)
- Easy to clean

Monarplan® LA is a perfect solution for both commercial or domestic, public or private projects that need a new or refurbished roof, including schools, hospitals, private residences, factories, warehouses, offices, supermarkets and retail developments.

# The Monarplan® LA concept

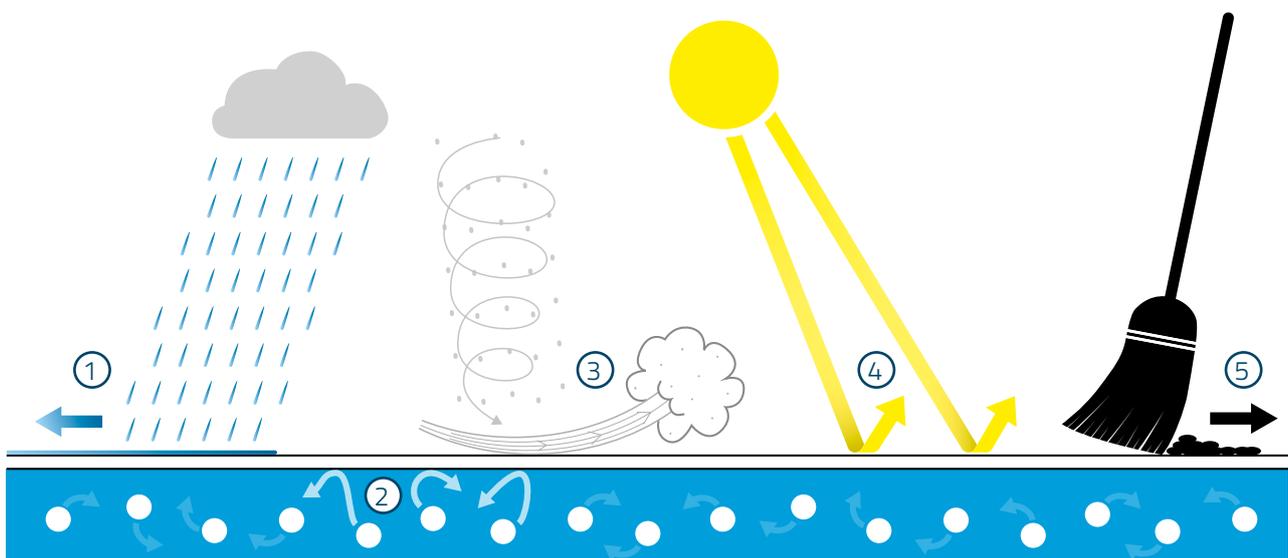
Adding a lacquered layer to the PVC membrane is something that is not new for Icopal. For more than 25 years Icopal manufactured synthetic membranes with a special lacquer, specifically made for roofs with long durability, cool roofs, solar roofs and coloured roofs with long lasting colours. After 15 years, roofs that are made with this lacquered PVC still look perfect, showing no sign of dirt or algae growth. And that without cleaning...

## How does it work

With our own lacquering technology we can coat PVC membranes with a specially developed acrylate ("Teflon") based lacquer. The lacquer is water based and environmentally friendly. We have developed our lacquering technology with the top suppliers of lacquer that have extensive experience with the lacquering of synthetics. Our production equipment and quality control procedures ensure the highest quality, flexibility and the possibility to process customer specific requests.

The lacquered layer of Monarplan® LA has several advantages, as the drawing also shows:

1. It creates a barrier that prevents water absorption (which otherwise can lead to plasticizer, migration hydrolysis and hence reduction of durability). Further, the protective layer repels water.
2. The lacquered layer prevents the migration of low molecular weight components and heavy metals (plasticizers, stabilizers, etc.) out of the membrane. So there is no expected leaching. This leads to a minimum extension of lifetime of 3-5 years, which means that the standard product guarantee of ten years can be increased by 30%.
3. The lacquered layer will provide a very smooth surface, and prevent natural soiling particle from sticking to the surface. It prevents against dirt and algae growth, keeping the colours as they originally are and (in case of white membranes/cool roofs) also the high reflective value remains.
4. The layer makes the membrane extreme weatherable: the membrane can endure exposure to any type of weather. The lacquer functions as a protective layer/barrier, which prevents the membrane from contamination and attack of chemicals from the environment. Chemical reactions inside the membrane – caused by these environmental components – will not take place because of this.
5. After installation enduring maintenance, it is in favour of the building owner that the roof's appearance stays new and if he needs to clean the roof, it is much easier to remove the contamination.





# Benefits

## **Longer lifetime**

Monarplan® LA protects the membrane against the influences from the weather (like rain, UV and other environmental particles). At the same time it prevents the water take-up, reduces chemical reactions inside the membrane and the migration of plasticizers and other chemical elements out of the membrane. This leads to the membrane having a significantly longer lifetime, something that's also good for the environment. Icopal can therefore guarantee an extended lifetime of minimum 3 years and possibly above 5 years or more in practice. This means an improved product guarantee of at least 3 years, or 30%.

## **Added (aesthetic) value**

The surface of Monarplan® LA stays smooth and the colours remain the same when time passes. This will give the building a lasting good appearance.

## **Reduction heat island effect**

What's white stays white. Our white PVC membranes -that have an SRI (Solar Reflective Index) value of 95 (±2)- will repel dirt. This means the white roof can keep on doing its job: redirecting the heat of the sun back to its surroundings, mitigating the urban heat island effect.

## **Easy to clean**

Thanks to the smooth surface the roof will not get dirty quickly. In the event that there will be a bit of dirt on the membrane, the lacquered layer makes the membrane even easier to clean than a 'non-lacquered' PVC roof.

# Monarplan® LA membrane

Monarplan® LA is a flexible PVC single ply membrane offering excellent characteristics of strength, elongation and weathering. All Monarplan® LA membranes are reinforced and are available with or without a fleece backing providing scope for all methods of application, such as mechanically fastened, adhered or loose laid and ballasted.

All Monarplan® FM LA membranes are available as followed:

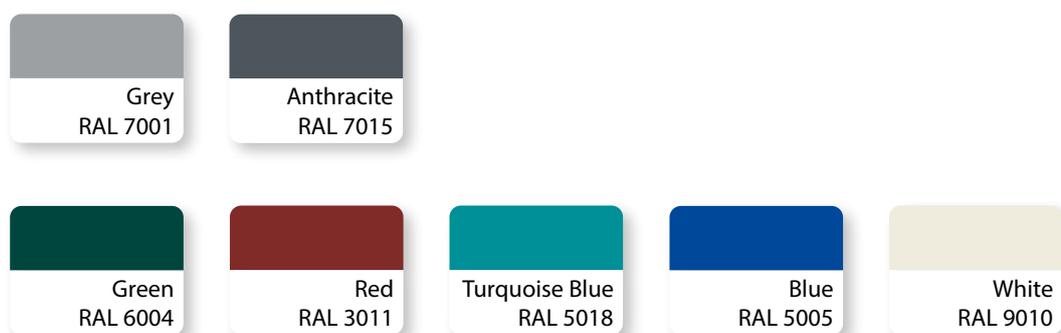
Thickness	Roll Dimension
1.2mm	0.75 x 15m
1.5mm	1.06 x 15m
1.8mm	1.50 x 15m
2.0mm	2.12 x 15m

Roll length is 20m when thickness is 1.2 mm

Monarplan® GF LA (Fleeceback membrane) are available as followed

Thickness	Roll Dimension
1.5mm + fleece	2.12 x 15m

For Monarplan® the colours grey and anthracite are standard available, other colours (some examples shown below) on request. For aesthetic reasons it's even more important and strongly advised by Icopal to always lacquer coloured membranes.



RAL colours for indication only.

One type of transparent lacquer is used. Please note that the packaging will be unchanged and that transfer prices are calculated for a minimum order size of 3000 sqm as a first indication.

# Why choose Monarplan®

Monarplan® LA is a newly developed addition to our traditional line of Monarplan® PVC products. Icopal has a long tradition of manufacturing quality PVC membranes for over 40 years.

Other reasons to choose Monarplan® as your roofing solution:

- Icopal's PVC manufacturing capacity is now greater than 10 million square meters making Icopal one of the leading manufacturer's of PVC membranes in Europe.
- Monarplan® membranes are complimented by a full range of compatible accessories making system specification much easier.
- Compatible with other Icopal product ranges.
- Monarplan® PVC membrane production waste is recycled.
- Monarplan® is ideal for small domestic extensions or large commercial projects.
- Monarplan® has third party accreditation from BBA, SGS, SKZ and Sintef.
- Monarplan® membranes are flexible and easy to handle.
- Monarplan® membranes are easy to hot air weld and fast to install.
- Monarplan® membranes are UV Resistant.





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