

# MONNELI INSUWRAP 1200 WM-R

1.2 mm thick reinforced PVC Membrane for covered roofing system

# **Product Description**

Insuwrap 1200 WMR is a homogeneous PVC (polyvinylchloride) sheet waterproofing membrane and reinforced with polyester mesh.

# Properties

Appearance:Reinforced PVC rolled sheet membraneMembrane thickness:1.20mmColour:Translucent, Twin or Single Color

## Uses

Waterproofing of covered Roofs and podiums

# Advantages

- High tensile strength and elongation
- Hot air weldable
- Flexible throughout life span
- Resistant to ageing
- Long durability
- High dimensional stability
- Anti-Root membrane
- Can be installed on wet and dry substrates
- Designed to be used in hot climates
- Reaction to Fire Class B
- Covered Application

# Standards:

Tested according to testing requirements of ASTM D4434 and DIN 16735.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI ABU DHABI KSA QATAR ITALY





## Technical Data

Test Performed	Standard and Requirements	Results
Membrane Thickness	ASTM D 4434	1.2 mm
Mass	DIN16735	1.56 kg/m2
Tensile strength	DIN 16735	≥15.0 N/mm2
	Min 10.40 N/mm2	
Elongation at break	DIN 16735	>300%
	Min 150%	
Thermal Stability	DIN 16735	
	Less than 1%	<0.3%
	(6 hrs - 90°C)	
Tear Strength	Min 80 N	> 95N
Seam Strength	ASTM D 4434	>82%
Tear Resistance	ASTM D 4434	>95 N
Puncture Resistance	DIN 16735	Passed
	Drop hammer 500 grams, from	
	300mm no leak	
Water Vapour diffusion	DIN16735	$<$ 23,000 $\mu$
Resistance	Less than 30,000	
Cold Bend	DIN 16735	No cracks at -30°C
	No cracks at -20°C	
Resistance to Algae &		High resistance
Rot		

## Complementary products:

PVC Coated Aluminium sheet for termination Geotextile membrane Protection layer PU Sealant Aluminium flashing Steel washers

## Instructions of use:

## Substrate Preparation

The surface of the sloping concrete shall be sound, clean, dry or wet, and uncontaminated. This preparation shall be as such as to leave a sound exposed concrete surface free from dust, laitance and any delirious matter.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI ABU DHABI KSA QATAR ITALY





## Application:

# LOOSELY LAID PVC SHEET INSTALLATION

Install loosely laid PVC sheets over entire roof area so the light colour is at the visible side towards the substrate.

- A. Horizontal Installation:
  - 1. Install the separation layer over the entire horizontal area before the PVC membrane (if needed) in full accordance with Colmef's method statement
  - 2. Accurately align sheets and maintain uniform side and end laps of minimum dimensions required. Stagger end laps.
  - 3. Install the Geotextile membrane as a separation layer above the PVC membrane followed by a minimum of 50mm extruded polystyrene thermal insulation
  - 4. As much as practically possible the joints will not be against the direction of flow.
- B. Upstands:
  - 1. Apply the 1200 WM-UV membrane directly on the concrete up-stand with Neofil S10 contact adhesive
  - 2. Secure top termination of waterproofing with continuous, Aluminum flashing strip, and Elastoseal PU25, a Polyurethane sealant from Colmef.
- C. Seam Installation: Hot air welding and end laps of overlapping sheets according to manufacturer's method statement to ensure a watertight seam installation. Inspect outside edge of seams with pointed metal probe and ensure completed laps lay flat through one of the following methods:
  - 1. Method 1: All seams of installed waterproofing can be subject to pneumatic test at test pressure of 2.00 bars.
  - 2. Method 2: Testing the welded joint using a vacuum test machine
- D. Any hole, resulting from construction activities, noted in installed membrane shall be repaired in accordance with manufacturer's method statement.

## CORNER JOINT INSTALLATION

dubai Abu dhabi

KSA QATAR

ITALY

- A. Install corner details in accordance to waterproofing manufacturer's written instructions.
  - 1. Use same welding system as specified for membrane.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.





## Ambient Air Temperature

+5°C - +60°C

## Packaging

Roll size: 2.10 m (roll width) x 20m (roll length)

## Storage

Rolls shall be stored in their original package, in horizontal position and under cool and dry conditions protected from direct sunlight and rain.

Insuwrap PVC membrane does not expire and has a very long life expectancy.

## Limitations

- Do not directly apply the PVC membrane permanently on bitumen and plastics other than PVC, a separation layer of geotextile is required.
- The PVC Membrane can be exposed to UV light permanently.
- Insuwrap 1200 WMR can be exposed temporary to ground water or polluted water with temperature up to 50°C for 3 months.

#### Health and Safety

• Local safety regulations must be observed. Information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

## Legal Notes

• The information, and, in particular, the recommendations relating to the application and end-use of Colmef Insuwrap products, are given in good faith based on Colmef current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Colmef's recommendations.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI ABU DHABI KSA QATAR ITALY

