

# Technical data sheet

TDS-PH052025

## Product Definition

**BITULINE® Prima PP40M** is a torch-applied bituminous felt reinforced with non-woven polyester mat and modified with APP plastomeric bitumen. BITULINE® Prima PP40M has cold flexibility property of -5°C. Produced in thickness of 3,5 mm and **BITULINE® Prima PP40M** is a commercialized bottom protected by thermo-fusible PE film and upper surface protected by granules to protect the roof

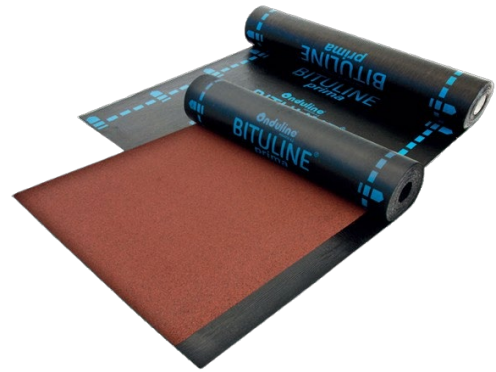
### All Buildings;

- In coatings of flat and sloping roofs,
- It is used for waterproofing purposes as a topcoat material on the horizontal/vertical surfaces of terraces.

### Moreover;

- Thanks to the minerals on its surface, **Prima PP 40M** is resistant to the UV rays of the sun.
- It protects the first layer of applied waterproofing against external factors.
- Different color options provide an aesthetic appearance on the roof.
- Thanks to BITULINE® modified bitumen, it maintains its flexibility at very low temperatures and does not crack. At high temperatures, it softens slowly and maintains its form. Therefore, it can be used safely in every climate zone.
- In places where waterproofing will be applied, BITULINE® PP 40M can provide resistance up to -5°C.
- BITULINE® Waterproofing System is 100% waterproof, flexible and long-lasting.

# BITULINE® PRIMA PP40M



## Technical Specifications

Technical Specifications	Method	Unit	Tolerance	Value
Visible defects	TS EN 1850-1	-	-	NONE
Length	TS EN 1848-1	m	min (-0.03)	10
Width	TS EN 1848-1	m	min (-0.02)	1
Straightness	TS EN 1848-1	-	-	PASS
Thickness	TS EN 1849-1	mm	± 0.02	3.5
Watertightness (meth.B 10 Kpa) (meth. B. 60 kPa)	TS EN 1928	-	-	PASS
Reaction to fire	TS EN 13501-1	CLASS		E
Joint strength	TS EN 12317-1	N/50 mm	±30%	600
Water vapor transmission	TS EN 1931	-	min	20000
Tensile strength (longitudinal/transversal)	TS EN 12311-1	N/50 mm	-25% ; +50%	600 400
Elongation at break (longitudinal/transversal)	TS EN 12311-1	%	(-10; +20)	30 30
Dangerous Substances				NONE
Resistance to impact	TS EN 12691 (meth. A)	mm	min	1000
Resistance to static loading	TS EN 12730 ((meth	Kg	min	10
Resistance to tearing	TS EN 12310-1	N	±30%	125
Flexibility at low temperature	TS EN 1109	°C	≤	-5
Flow resistance at elevated temperature	TS EN 1110	°C	≥	110
Determination of peel resistance of joints	TS EN 12316-1	N/50 mm		NPD
External Fire Performance	TS EN 13501-5	CLASS		Broof(t <sub>2</sub> )
Artificial ageing behaviour	TS EN 1296 TS EN 1928 (meth. B 60 kPa)	°C	± 5	0
	TS EN 1847 TS EN 1928 (meth. B 60 Kpa)	°C	± 10	100
Adhesion of granules	TS EN 12039	%	≤	30
Dimensional stability	TS EN 1107-1	%	≤	0.6

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### OFIC Philippines Inc

#73 Bayani Road, Unit 2 Heinen Building, AFPPHOVAI Phase II Western Bicutan, Taguig City Philippines 1630

**Anduline®**  
Lightweight roofing systems

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## Bituminous waterproofing membrane

BITULINE® waterproofing membranes, which have many details for accessible and non-accessible roofs and green roofs, are applied in 2 ply with a thickness of at least 3 mm.

## BITULINE® PP40M Application Steps on Pitched wooden roof

1. The Product Information Sheet should be examined for application details of the products preferred from the BITULINE® Prima series (BITULINE® PG 300, BITULINE® PP 300 and BITULINE® PP 400) which is used as the first ply of waterproofing.
2. As the second ply, **BITULINE® Prima PP40M** which has UV-resistant, should be applied in the same direction as the first ply and in a way to center the joints of the first ply, overlapping the joints by at least 10 cm, heated with a torch and using the full bonding method.
3. In vertical applications, the mineral surface of the membrane under the overlap should be cleaned with a stiff brush, then the joints should be overlapped by at least 15 cm, heated with a torch and applied with the full bonding method.
4. **BITULINE® PP40 M** waterproofing membrane should be applied on all chimney, wall and parapet edges, up to at least 30 cm above the ground level, should be applied to completely exposed membrane surfaces. Aluminum Z profile batten should be applied to prevent the end points of BITULINE® from being damaged by UV rays. UV resistant mastic or silicone should be applied to the upper part of the aluminum Z profile.

## BITULINE® PP40M Application Steps on Terrace Roof (Non-Accessible)

1. The Product Information Sheet should be examined for application details of the products preferred from the BITULINE® Prima series (BITULINE® PG 300, BITULINE® PP 300 and BITULINE® PP 400) which is used as the first ply of waterproofing.
2. As the second ply, **BITULINE® Prima PP40M** which has UV-resistant, should be applied in the same direction as the first ply and in a way to center the joints of the first ply, overlapping the joints by at least 10 cm, heated with a torch and using the full bonding method.
3. In vertical applications, the mineral surface of the membrane under the overlap should be cleaned with a stiff brush, then the joints should be overlapped by at least 15 cm, heated with a torch and applied with the full bonding method.
4. **BITULINE® PP40M** should be laid perpendicular to the slope at the lowest points (vertical and horizontal rainwater drains). In places where rain drains are located, the reinforced concrete slab or slope screed is made at least 1cm lower in an area of ~50cm x 50cm, and water accumulation on the roof surface is prevented by 100%, even on very low-slope terrace roofs.
5. **BITULINE® PP40M** waterproofing membrane should be applied on all chimney, wall and parapet edges, up to at least 30 cm above the ground level, should be applied to completely exposed membrane surfaces. Aluminum Z profile batten should be applied to prevent the end points of **BITULINE®** from being damaged by UV rays. UV resistant mastic or silicone should be applied to the upper part of the aluminum Z profile.

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## General Warnings

1. Application should not be made at temperatures below +5 °C and above +35 °C.
2. The humidity rate of the ground where BITULINE® PP40 M will be applied should be at most 8%.
3. On Terrace Roofs (Non-accessible) or roofs with slopes up to 5%, the first ply can be applied using BITULINE® PP300, BITULINE® PP400 or BITULINE® PG300, and the second layer can be used with BITULINE® PP 40M.
4. For applications in cold weather, BITULINE® PP40M should be stored in closed warehouses with temperatures above +5 °C at the application site for 24 hours and then applied.
5. BITULINE® PP40M rolls should be opened slowly and carefully in order to align them during application.
6. It is recommended to apply by pulling the rollers from the front, without stepping on the membrane for granulated membrane application. Adhesion of the joints must be ensured by passing an 11kg roller over the joints. There is no need for a different application except in exceptional cases.
7. BITULINE® PP40M should not be damaged during application and applications should be carried out by certified and experienced application teams.
8. Applied BITULINE® PP40M rolls must be protected against mechanical effects such as impact, cutting and scratching.
9. Application should not be made in rainy weather as full adhesion cannot be achieved due to increased surface humidity.

## Safety Rules

1. The team that will apply BITULINE® PP40M must supply appropriate materials for occupational safety. During the application, heat-resistant shoes, gloves, goggles, leather armbands and a torch can be used. All personal protective occupational safety measures must be taken.
2. To prevent the possibility of fire due to the use of torches during application, a fire extinguisher should be kept close to the application area.
3. In sloping roof applications, life rope must be used.
4. In sloping roof applications, there should be no gap between the roofing boards during application to prevent the risk of falling.
5. Parts of the roof that pose a risk of falling should be painted with warning paint or protective measures should be taken around them.

## Tools

Roofing torch, propane cylinder, connecting hoses with regulator, trowel, knife and gloves.

## Packaging

Rolls/pallet	: 25 rolls
Qty/pallet	: 250 m <sup>2</sup>
Weight/pallet	: ±1100kg

## Storage

Protect against direct sunlight. Original packages should be transported and stacked upright, pallets should be stored in a closed moisture-free environment without stacking.

## BITULINE® Prima PP40M cap sheet available colors:

Grey  
Red

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