

Environmental declaration

Platon Multi

Manufacturer

Isola is a leading building products supplier with key products which solve damp problems. The Platon Factory is a production unit within the Isola Group, where product development and technical customer service are part of the Factory's activities. The Platon Factory operates a quality assurance system, certified in accordance with EN ISO 9001. Isola focuses actively on environmental aspects. Products from the Platon Factory do not pollute the external environment.

Product

Application – Damp proof membrane in floors

The main application for Platon Multi is as a damp proofing and separating underlay for self-levelling, concrete or sand and cement screeds on concrete floors.

Product description

Platon Multi is a studded membrane manufactured from High Density Polyethylene. It is impermeable, water repellent and resistant to the normal chemicals found in building construction. The product is a very good damp proof membrane and barrier against contamination in the substrate. The studs form an air gap against the underlying layer in the construction. The air gap provides equalisation of damp pressure from and/or through the concrete floor. These properties protect the indoor air and make buildings more comfortable in use.

The product is supplied in rolls, and is the main product in a system with components that ease installation and ensure operating performance. The system satisfies requirements in building technical regulations and standards. The product is well documented in product technical approvals. Emphasis is placed on necessary product information for the user, to ensure correct choice and installation of the system.

The product performance characteristics contribute to a better indoor environment and optimal use and performance of buildings. Manufacture and use of the product represents a justified use of world resources and a minimum strain on the total environment.

Material content (weight %/m² product)

Polyethylene (PE) 98,5
Stabilisers, pigments 1,5

The product contains no chemicals registered in: List of hazardous substances (N); Chemical Inspectorate's limiting and observation lists (S); EU list of hazardous substances.

Emissions

Method: FLEC.
TVOC: < 10 µg/m².h.

Package content (g/m² product)

Roll label and packaging around pallet, PE: 8

Manufacture

A continuous process consisting of extruding, vacuum-forming and packing. Generally, any product produced outside quality tolerances is recovered and reprocessed.

Energy use during manufacture

Electricity.

Emissions to air during manufacture

Very small quantities of aliphatic hydrocarbons, aldehydes, ketones and organic acids.

Emissions to and consumption of water

None.

Solid waste

Waste is very suitable for energy recovery by incineration. For refuse disposal, possible migration to water will be insignificant and take place over a long time.

Packaging

The product is supplied on wooden pallets and protected with stretch film of polyethylene. Pallets are of type CP, used in return and reuse systems. Roll label and pallet packaging may be easily sorted. Isola as is a member of Materialretur AS (N), and Reparegistret AB (S).

Use and reuse

Used product may be removed manually without large use of energy for disposal and recycling. The product is not defined as hazardous refuse. The product may be easily sorted for energy recovery by incineration. Recovery of raw material from the product in the future will depend on refuse sorting which includes good cleaning procedures. Reuse of the product is not very suitable because of the condition and size of the product lengths after demolition.

Life expectancy

For defined applications, the product has an expected life of at least 50 years.

Operation and maintenance

Under normal conditions, there is no requirement for maintenance.

Transport

The product, and components, are not classified as hazardous, and do not require any special handling.

Information

This declaration is based on available data. The information given should be considered as guidance only.

For further information on the product and this declaration, contact our technical customer service (see back page).

Isola as, Platon Factory, N-3678 Notodden. Tel.: + 47 35 57 57 00, Fax: + 47 35 02 75 55.		Use of resources and impact on the environment – qualitative description				Multi		
		Platon Multi.				Issued: 1 March 2007. Replaces: 25. march 2002.		
No.	Life cycle stage	Description	Energy type	Renewable raw material	Non- renewable raw material	Emission to		Impact on land
						water	air	
1.0.	Use of resources by suppliers.							
1.1.	Raw materials	PEH	Approx. 11 kWh /m ² (Euro. average).		Raw oil, natural gas (LNG), approx. 99%.	Solids in suspension.	CO ₂ , SO _x , NO _x .	Waste, hazardous waste.
1.2.	Additives				Organic, ≤ 0,2%.			
1.3.	Recycled material		Electricity.			None.	None.	None.
1.4.	Raw material source	Europe.						
2.0.	Manufacture.							
2.1.	Production process		Electricity.	Recovery of used raw material in production process.		None.	None.	None.
3.0.	Distribution of finished product.							
3.1.	Place of manufacture	Notodden, Norway.						
3.2.	Transport form.	Road, partly boat and rail.			Non-renewable oil products.			
3.3.	Distribution form	Via distributor.			Non-renewable oil products.			
3.4.	Packaging			Reusable wooden pallets	Recyclable polyethylene.			
4.0.	Building site.							
4.1.	Installation	Manual.				None.	None.	None.
5.0.	Use.							
5.1.	Operation	Manual.				None.	None.	None.
5.2.	Maintenance	Not required.						
5.3.	Life expect.	At least 50 yrs.						
6.0.	Demolition.							
6.1.	Dismantling				Manual.	None.	None.	None.
7.0.	Recycling.							
7.1.	Reuse	Little suited.						
7.2.	Recovery	Well suited.						
7.3.	Energy recovery				Well suited for incineration.	None.	CO ₂ , H ₂ O.	None.
8.0.	Waste disposal.							
8.1.	Refuse tipping				Does not degrade	None.	None.	None.
8.2.	Incinerating				Well suited.	None.	CO ₂ , H ₂ O.	None.
9.0.	Internal environment.							
9.1.	Substances causing allergy	On contact: Respiratory:	No known effects on health. Not relevant. Not relevant.					
9.2.	Building process		Product is not sensitive to moisture. Keep rolls clean by storing in unbroken packaging. See installation instructions for more information.					
9.3.	Own emission	TVOC	Insignificant quantities, less than 10 µg/m ² h.					
9.4.	Surrounding material		Clean concrete surface for material deposits and other organic material.					
9.5.	Reason for advice in 9.4.		Prevention of mould and fungi growth, resultant bad smells in air gap and negative effect on indoor air, if air gap is vented to room.					
9.6.	Operation and maintenance		Under normal conditions maintenance is not required. The product should be included in any operating and maintenance manual.					
9.7.	Noise level		Not relevant.					
9.8.	Magnetic and electrical fields		Not relevant.					
10.0	Additional information.	This declaration is based on available data. The information given should be considered as guidance only.						