

RAW MATERIALS

Natural by Nature

Marmoleum is made from **97%** natural raw materials, **62%** of those are renewable within 10 years and **29%** are renewable within **1** year.

Supporting the circular economy principles, **43%** of materials used in Marmoleum are also recycled or reused.

Note: Typical values quoted; may vary based on batch and/or design.

Why renewable raw materials?

Renewable materials offer three distinct advantages over fossil-based ones:

- Abundance
- Biobased
- Uptake and capture of CO₂ during growth



Renewable raw materials – 62%

Linseed oil, tall oil, gum rosin, wood flour, jute

- Linseed oil is obtained by cold-pressing the seeds of the flax plant. It is sourced mainly from USA, Canada, Europe.
- Gum rosin is a solid form of resin obtained by tapping pine trees. The crude gum is extracted and separated into turpentine and rosin. A tree can be tapped for 30 years. Pine trees in tropical areas produce more rosin. Forbo sources its rosin primarily from Indonesia.
- Jute – also known as hessian or burlap – is a natural and important eco-friendly vegetable fibre. It is produced from the fibre in the stem of the jute plant and is sourced from India and Bangladesh. Woven jute is used as the backing for Marmoleum.
- Wood flour is milled using soft wood off-cuts from the wood industry. Wood flour is finely pulverised wood. Soft wood comes from renewable (re-planted) trees, such as pines or firs, which re-grow in about 20 years. Only wood off-cuts from certified PEFC sustainable forestry are used.

features:

- rapidly renewable – 29%: linseed, jute, rosin
- uptake and capture of CO₂ during growth
- recycled raw material
- highly supportive of circular economy

Recycled and reused materials – 44%

Marmoleum collected from Forbo's own factory (off-cuts, rejected rolls) and post-installation off-cuts returned from customers through our Back to the Floor programme.

Back to the Floor is our free, installation off-cut collection service. This circular-economy initiative also saves money and time for our contractors, avoiding landfill or incineration gate fees.

features:

- recycled material
- less CO₂ consumption
- reduced landfill and incineration
- supportive of circular economy

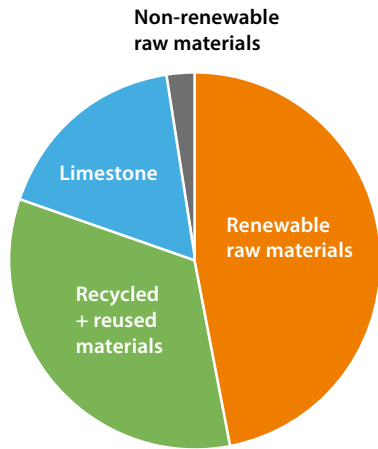
Filler: limestone – 23%

Limestone is one of the world's most abundant resources. After sand, it is the most available natural raw material on the globe. Forbo uses limestone sourced from Germany and mined above ground level, limiting energy consumption and environmental impact.

Non-renewable raw materials – 3%

The non-bio based materials in Marmoleum are the colour pigments and factory finish. The vast majority of pigments Forbo uses are iron oxide-based, resulting in durable, high quality pigments. Other pigments used are organic. Titanium White – the same white pigment used in paints, paper, foods, cosmetics and toothpaste – accounts for 2/3 of the pigments used.

Note: Typical values quoted throughout; may vary based on batch and/or design.

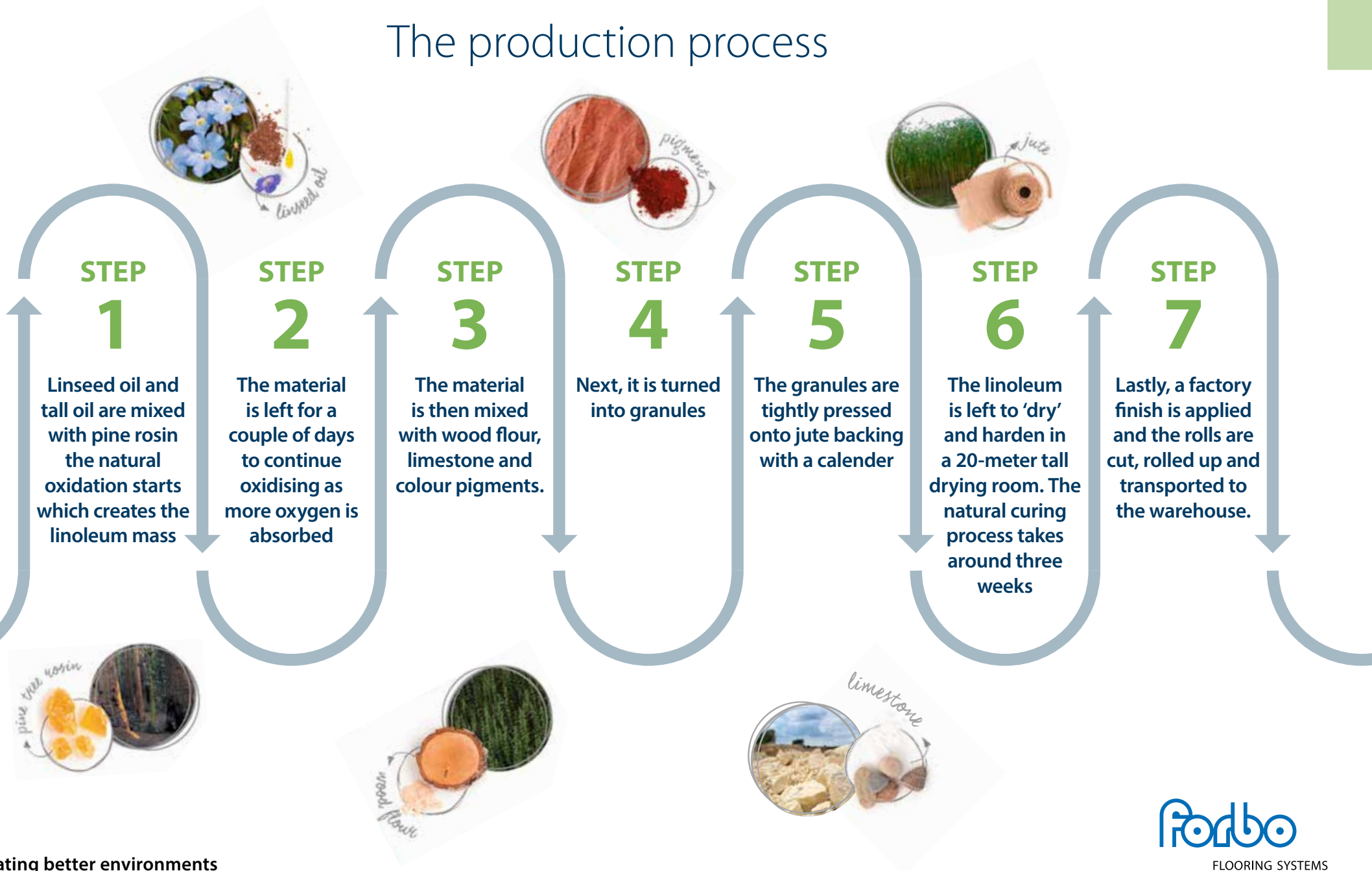


Components

Marmoleum is made up of the following components.



The production process



Example Marmoleum sheet 2.5mm (individual product EPDs available)

Marmoleum ingredients	Check EPD for exact %	Bio based crops			Bio based recycled products			Recycled + reused Marmoleum
		Linseed oil	Gum Rosin	Jute	Tall oil	Wood flour	Limestone	
Natural	97%	●	●	●	●	●	●	●
Renewable (10 years)	62%	●	●	●	●	●		
Rapidly renewable (1 year)	29%	●	●	●				
Recycled + reused	43%				●	●		●



Natural

Existing in or formed by nature.

Renewable

Materials which will be replenished within a period of 10 years.



Rapidly renewable

Materials mainly obtained from agricultural production. They regenerate crops every year, or far quicker than fossil resources.



Recycled + reused

Material that has been reprocessed from recovered (reclaimed) material by means of a manufacturing process and made into a final product or component for incorporation into a product.

UK

Forbo Flooring UK Limited
High Holborn Road
Ripley
Derbyshire DE5 3NT

London EC1 showroom

79 St John Street, Clerkenwell
London EC1M 4NR
Tel: 0207 553 9300

For commercial enquiries:

If calling from the North,
London & South East
Tel: 0800 0282 162
bcs.flooring.uk@forbo.com

If calling from Scotland,
Midlands & South West
Tel: 0800 0935 258
kcs.flooring.uk@forbo.com

Nuway enquiries:

Tel: 01773 740 688
efs.flooring.uk@forbo.com

Residential enquiries:

Tel: 0800 0935 846
krccs.flooring.uk@forbo.com
www.forbo-flooring.co.uk

Sample orders:

Tel: 0800 731 2369
samples.uk@forbo.com

Ireland

Forbo Ireland Ltd
2 Deansgrange Business Park
Blackrock
Co Dublin

Tel: 00353 1 2898 898
Fax: 00353 1 2898 177
info.ireland@forbo.com
www.forbo-flooring.ie

Registered office:

Forbo Flooring UK Limited
High Holborn Road
Ripley
Derbyshire DE5 3NT
Registered in England 9200318