



EcoFlakes® Pro

A low-carbon solution for polymer-modified asphalt

EcoFlakes® PRO is a high-performance dry asphalt additive made from recycled plastics and elastomers. By replacing conventional synthetic polymers and reducing the use of virgin bitumen, **EcoFlakes® PRO** offers a dual advantage: improved infrastructure performance and a lower carbon footprint. Validated through projects across Europe, **EcoFlakes® PRO** provides proven reliability under diverse conditions. Whether you're aiming to meet climate targets, reduce production costs, or build longer-lasting roads, **EcoFlakes® PRO** brings real-world impact to every layer of your asphalt.

CHARACTERISTICS

Form: extruded granules (2-5mm)

Density: 0,88-0,97 g/cm³

Colour: Grey, white and transparent granules

BENEFITS

- Noticeable **reduction of production costs**
- **Lower CO₂ footprint** of the asphalt mix
- **Compliant** with PmB specifications

APPLICATION

EcoFlakes® PRO is engineered for use in hot asphalt mixes and is fully compatible with RAP* and warm-mix additives. It enables the production of binders with performance characteristics equivalent to polymer-modified bitumen (e.g., 25/55-55), while partially replacing virgin bitumen, hence resulting in reduced raw material costs.

Designed for seamless integration at the mixing plant, **EcoFlakes® PRO** can be incorporated using standard dosing equipment (e.g., fibre feeders). The product is available in 1000 kg BigBags or convenient 5 kg PE bags, and remains stable in storage across a wide temperature range (-15 °C to +45 °C).

For high RAP content, you can refer to **EcoFlakes® PRO RC with an advanced formula specifically developed for such use cases.*

TECHNICAL FEATURES

- **Improved rheological properties** such as elasticity and viscosity of the binder (elastic recovery consistently ≥40%).
- **Slower oxidation and ageing** of the binder, resulting in improved cold flexibility and reduced risk of thermal cracking.
- **No toxic emissions released** during mixing or laying.
- **Can be reclaimed and reused** as RAP.

Versatile applications

EcoFlakes® PRO can be used in binder and surface layers and is fully compatible with all bitumen grades and mixture types. Its flexibility makes it ideal for a wide range of projects, especially those subject to heavy traffic loads and demanding performance requirements.



Interested ? Contact us !

 <https://www.ecopals.de/>

 ecoflakes@ecopals.de

 Berlin, Germany



EcoFlakes® Pro RC

A low-carbon solution for polymer-modified asphalt with high RAP content

EcoFlakes® PRO RC is a high-performance dry asphalt additive made from recycled plastics and elastomers. By replacing conventional synthetic polymers and reducing the use of virgin bitumen, **EcoFlakes® PRO RC** offers a dual advantage: improved infrastructure performance and a lower carbon footprint. Validated through projects across Europe, **EcoFlakes® PRO RC** provides proven reliability under diverse conditions. Whether you're aiming to meet climate targets, reduce production costs, or build longer-lasting roads, **EcoFlakes® PRO RC** brings real-world impact to every layer of your asphalt.

CHARACTERISTICS

Form: extruded granules (2-5mm)

Density: 0,88-0,97 g/cm³

Colour: Grey, white and transparent granules

BENEFITS

- Noticeable **reduction of production costs**
- **Lower CO₂ footprint** of the asphalt mix
- **Compliant** with PmB specifications with **high recycled asphalt (RAP) content**

APPLICATION

EcoFlakes® PRO RC is a spin-off from **EcoFlakes® PRO** engineered specifically for use in hot asphalt mixes with high RAP content*. It enables the production of binders with performance characteristics equivalent to polymer-modified bitumen (e.g., 25/55-55), while partially replacing virgin bitumen, hence resulting in reduced raw material costs.

Designed for seamless integration at the mixing plant, **EcoFlakes® PRO RC** can be incorporated using standard dosing equipment (e.g., fibre feeders). The product is available in 1000 kg BigBags or convenient 5 kg PE bags, and remains stable in storage across a wide temperature range (-15 °C to +45 °C).

Any RAP content starting approx. from 30% in a binder and/or surface layer is a potential use case for **EcoFlakes® PRO RC.*

TECHNICAL FEATURES

- **Improved rheological properties** such as elasticity and viscosity of the binder (elastic recovery consistently ≥40%).
- **Slower oxidation and ageing** of the binder, resulting in improved cold flexibility and reduced risk of thermal cracking.
- **No toxic emissions released** during mixing or laying.
- **Can be reclaimed and reused** as RAP.

Versatile applications

EcoFlakes® PRO RC can be used in binder and surface layers and is fully compatible with all bitumen grades and mixture types. Its flexibility makes it ideal for a wide range of projects, especially those subject to heavy traffic loads and demanding performance requirements.



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 ecoflakes@ecopals.de

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EcoFlakes® Green

A low-carbon solution for high-static load environments

EcoFlakes® GREEN is a high-performance asphalt additive made from recycled plastics. By replacing conventional synthetic polymers and reducing the use of virgin bitumen, **EcoFlakes® GREEN** offers a dual advantage: improved infrastructure performance and a lower carbon footprint. Validated through projects across Europe, **EcoFlakes® GREEN** provides proven reliability under diverse conditions. Whether you're aiming to meet climate targets, reduce lifecycle costs, or build longer-lasting roads, **EcoFlakes® GREEN** brings real-world impact to every layer of your asphalt mix.

CHARACTERISTICS

Form: extruded granules (2-5mm)

Density: 0,895-0,97 g/cm³

Colour: Grey and transparent granules

BENEFITS

- Noticeable **reduction of production costs**
- **Lower CO₂ footprint** of the asphalt mix
- **Compliant** with PmB specifications

APPLICATION

EcoFlakes® GREEN is engineered for use in hot asphalt mixes and is fully compatible with RAP* and warm-mix additives. It enables the production of binders with performance characteristics equivalent to polymer-modified bitumen (e.g., 25/55-55), while partially replacing virgin bitumen, hence resulting in reduced raw material costs.

Designed for seamless integration at the mixing plant, **EcoFlakes® GREEN** can be incorporated using standard dosing equipment (e.g., fibre feeders). The product is available in 1000 kg BigBags or convenient 5 kg PE bags, and remains stable in storage across a wide temperature range (-15 °C to +45 °C).

For high RAP content, you can refer to **EcoFlakes® PRO RC with an advanced formula specifically developed for such use cases.*

TECHNICAL FEATURES

- **Extended lifespan of the asphalt** due to increased resistance to rutting and stiffness.
- **Slower oxidation and ageing** of the binder, resulting in improved cold flexibility and reduced risk of thermal cracking.
- **No toxic emissions released** during mixing and paving.
- **Can be reclaimed and reused** as RAP.

Versatile applications

EcoFlakes® Green can be used across all asphalt layers—base, binder, and surface—and is fully compatible with all bitumen grades and mixture types. Its flexibility makes it ideal for a wide range of projects, especially those subject to heavy traffic loads and demanding performance requirements.



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ecoflakes@ecopals.de



Berlin, Germany



EcoFlakes® Warm

A low carbon solution for flexible modification of temperature-reduced asphalt

EcoFlakes® WARM is a high-performance polymer for the direct modification of asphalt, enabling the production of reduced-temperature asphalt with simultaneous polymer modification in a single production step. As a combination product, **EcoFlakes® WARM** is successfully listed on the pilot product list for reduced-temperature asphalt of the Federal Highway and Transport Research Institute (BAST), with its effectiveness validated through independent laboratory testing.

Whether to achieve ambitious climate targets, optimize production costs, or deliver long-lasting infrastructure assets, **EcoFlakes® WARM** provides proven performance advantages in both binder and surface courses.

PROPERTIES

Form: Extruded granules (3–6 mm)

Density: 0.88–0.97 g/cm³

Color: Grey, white, and transparent granules

BENEFITS

- Combination product of **polymer modification and temperature-reducing additive**
- Noticeable **reduction in production costs**
- **Lower CO₂ footprint** of the asphalt mixture
- Resulting **binder qualifies as PmB**

APPLICATION

EcoFlakes® WARM were developed for use in reduced-temperature asphalt and are fully compatible with reclaimed asphalt (RAP). They enable the production of binders that match the technical performance of conventional polymer-modified bitumen (e.g. 25/55-55), while partially replacing virgin bitumen, resulting in lower raw material costs.

EcoFlakes® WARM are added directly at the mixing plant using standard dosing systems (e.g. fiber feeders). The product is available in 1000 kg big bags or 5 kg PE sacks and remains storage-stable across a wide temperature range (-15 °C to +45 °C).

For high RAP content, you can refer to **EcoFlakes® PRO RC with an advanced formula specifically developed for such use cases.*

TECHNICALS

- **Polymer modification with low-temperature asphalt technology** reduces production and paving temperatures by up to 30 K while simultaneously achieving full polymer modification. The resulting binder qualifies as PmB and delivers high resistance to rutting and fatigue while maintaining cold flexibility
- **Slower oxidation and ageing of the binder** reduce the risk of thermal cracking
- **No release of toxic emissions** during mixing or paving
- **Can be reclaimed and reused as recycled asphalt**

Wide Range of Applications

EcoFlakes® WARM can be used in binder and surface courses and is fully compatible with all bitumen grades and asphalt mix types. Its versatility makes it ideal for a wide range of projects, particularly those exposed to high traffic loads and demanding performance requirements.



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