

Trunk Protection Paste

ArboFlex



Prevent Sun and Frost Cracks

ArboFlex is a trunk protection paste specifically developed to prevent or reduce thermal (abiotic) bark damage caused by sunburn or frost. The German guideline ZTV Baumpflege-2017 stipulates that trunk protection must remain intact for at least 5 years to ensure optimal bark protection*. ArboFlex meets this requirement and provides this protection.

Application for Young Trees/Fruit Cultivation

When young trees are planted, they suddenly lose the protection they had in the nursery from mutual shading, leaving them exposed to direct sunlight. During pruning, trunks and branches are often uncovered, putting previously shaded bark at risk of thermal damage.

It is important to protect all trees that naturally have thin bark, such as Fagus, Carpinus, and Tilia, from sunburn. Espalier trees are particularly at risk. To eliminate the risk of thermal damage, sun-sensitive bark should be protected from both summer and winter sun for at least 5 years. For apricots and plums, an even longer protection period is necessary to prevent pseudomonas infections.

Application for Older Trees

Due to damage from extreme weather conditions or road safety measures, previously shaded trunks or tree crowns may suddenly be exposed to the risk of sunburn. In such cases, immediate protection of the vulnerable bark is crucial to maintaining the tree's vitality.

Product Specifications

- Suitable for all tree species
- Ready-to-use trunk protection paste, stir well before use
- Protection for a minimum of 5 years
- Non-toxic for humans and animals
- Plant strengthening agent (not a plant protection product)
- Protection up to the base of the crown
- Residue-free degradation
- Easy detection of insect and fungal infestations
- Air-permeable
- Complies with ZTV Baumpflege (2017) requirements: minimum durability of the paste is 5 years

*ZTV-Baumpflege: The ZTV-Baumpflege is a set of additional technical contract conditions and guidelines for tree care in Germany, ensuring high-quality and standardised practices in tree maintenance and care.



ArboFlex

Instructions for Use

- 1 Before applying the ArboFlex protection paste, the trunk must be cleaned. It is important that the bark is not damaged during this process. For trees with rough bark, we recommend using a wire brush with flattened bristles. For young trees and trees with smooth bark, we suggest using a sanding fleece.
- 2 After cleaning, the trunk should be treated with LX60 primer. This step ensures proper and long-lasting adhesion of the ArboFlex protection paste.
- 3 ArboFlex should be applied once the LX60 has dried and is no longer tacky. A round or flat brush is most suitable for this application.



Functionality

Due to the natural thickening growth of the trunk, small, net-like cracks will appear in the protective layer over time. After about 5 years, the protective effectiveness of the paste gradually diminishes. However, thermal damage to the bark is avoided, as the bark has time to gradually adapt to the changing climatic conditions.



Common Mistakes When Using LX60 & ArboFlex

In practice, common mistakes can result in improper drying and/or adhesion of LX60 and ArboFlex, reducing their effectiveness. These include:

- Application in wet conditions or temperatures below 0°C.
- Inadequate cleaning of the trunk.
- Failure to apply primer.
- Insufficient stirring of the protection paste before use.
- Paste not fully cured due to rain after application.
- Paste diluted before application.
- Brushes damaging the trunk.
- Paste not applied evenly.
- Paste not applied with precision.

Indicative Usage

The required amount of ArboFlex per tree depends on the roughness of the bark and the height of the trunk in combination with the trunk circumference.

The table to the right provides average usage, calculated based on 1 kg of ArboFlex/m² and a trunk height of 200 cm. →

Trunk Circumference (cm)	Usage (g/tree)
14 - 16	250 - 300
16 - 18	280 - 340
18 - 20	320 - 380
20 - 22	350 - 420
22 - 24	380 - 460
24 - 26	420 - 500

ArboFlex

Ecological Information

No special precautions are required for protecting soil and surface water. Empty packaging and product remnants should be disposed of through a certified chemical waste processor. Ensure that neither the packaging nor the product enters the soil or surface water.

Planning

- Pre-cleaning
- Application of LX60 Primer
- Application of ArboFlex Protection Paste

The total time for applying the primer and protection paste is approximately 6-7 minutes per tree, excluding the drying time of the LX60 primer.

Average Tree: Trunk circumference 14-16 cm, trunk height 200 cm.

Note: LX60 and ArboFlex can be applied to cut surfaces.



1 Clean the trunk with sanding fleece or a bark brush.



2 Apply LX60 primer.



3 Apply ArboFlex trunk protection paste.

After 3 Years



After More Than 6 Years



Primer

LX60



Adhesion Bridge for ArboFlex

LX60 primer is applied as a base layer with a brush onto the surface of the bark. It serves as an adhesion bridge for ArboFlex. LX60 is coloured yellow to visually indicate which part of the trunk has already been treated with the primer.

Adhesion of LX60

LX60 is purposefully formulated with low viscosity for ease of application. The material, applied with a brush or bristle, must reach the entire surface, including all natural irregularities (cracks, pores). This is the only way to create an ideal adhesion bridge.

The adhesion of LX60 depends on several factors, such as the roughness of the bark, its absorbency, and any covering of micro-organisms or dust. Therefore, thorough cleaning without causing damage is essential.

Application of LX60

- 1 Before application, the area to be treated should be cleaned without causing injuries. For trees with rough bark, we recommend our special wire brush with flattened instead of round bristles to prevent damage. For young trees and trees with smooth bark, we suggest using sanding fleece.
- 2 After cleaning, the trunk should be treated with LX60 to form a stable adhesion bridge between the bark and the protection paste.
- 3 Once LX60 has dried and is no longer tacky, ArboFlex can be applied. We recommend using a round or rectangular brush for this.

Product Specifications

- Low processing viscosity: The primer is thin enough to penetrate the cracks and pores of the bark for strong adhesion.
- Surface dry after 6-8 minutes
- Water-free and dry after 12-14 minutes
- Drying occurs through water evaporation from the product.
- Application temperature: 4 – 30°C
- Drying time at 4°C: approximately 1 to 1.5 hours
- Drying time above 30°C: less than 1 minute
- Drying: (30 µm at 20/21°C and 41% humidity)
- The consumption of LX60 primer is up to 20% of the amount of ArboFlex.
- Note: Do not use LX60 in rain, fog, or dew as it will not dry properly.

