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ROAD MARKINGS



LUXOVIT® for road markings

Luxol A/S has more than 30 years of experience supplying calcined flint - Luxovit® - to suppliers of road marking materials. We deliver high quality products - always on time, in full and with customer care being top of mind.

Luxovit® is an outstanding aggregate for the production of durable, visible and skid resistant road markings.



LUXOVIT®

- A HIGH PERFORMING AGGREGATE FOR ROAD MARKINGS

Road markings are subject to continuous wear and exposure to the elements, which requires high performing materials in terms of wear and skid resistance. Another significant performance parameter in road markings is visibility. Highly visible and retroreflective markings are crucial for facilitating road navigation and hereby increase traffic safety.

Road marking materials containing Luxovit® provide a wide range of advantages:

SKID-RESISTANCE

Luxovit® is an ideal non-skid aggregate that provides low attrition due to the angular shape of the Luxovit® grains. The grain structure of calcined flint makes Luxovit® exceptionally resistant to wear and polishing by traffic. The Luxovit® grains retain their surface structure and do not polish over time. The polish resistance enhances the skid-resistance, which maximises road safety.

DURABILITY & WEAR RESISTANCE

Luxovit® offers a strong resistance to any mechanical, chemical or thermal exposure. The hardness (7 on Moh's scale) of Luxovit® increases the wear resistance and extends the lifetime and durability of the road marking materials.

The hard wearing, anti-abrasion properties of Luxovit® further minimize the need for remarking whilst maintaining anti-slip properties.

ECONOMICAL

Luxovit® has a very low density compared to many other road marking aggregates. The low density allows you to get more volume out of the product.

Furthermore, the low density means that Luxovit® will have less tendency to segregate and fall to the bottom of the mix. It will stay in the surface of the road marking mix where anti-skid properties are needed.

WHITENESS

Luxovit® has a unique whiteness and can be used as a lightening agent in road marking materials.

The use of Luxovit® as an aggregate in road marking materials increases the light reflection of the markings, thereby significantly improving visibility in both dry and wet conditions.

Luxovit® has a CIE Y Brightness > 80.

GRADINGS



LUXOVIT®: 0,5 - 1,0 MM



LUXOVIT®: 1,0 - 1,5 MM



LUXOVIT®: 1,6 - 2,5 MM



LUXOVIT®: 2,0 - 3,0 MM

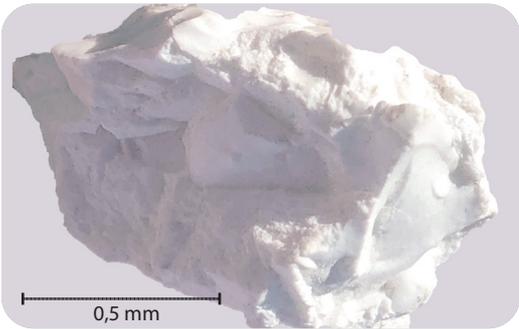
LUXOVIT®

- THE IDEAL ANTI-SKID AGGREGATE



LUXOVIT® SHOULD BE ADDED WHERE SPECIFICATIONS REQUIRE AN ELEMENT OF ANTI-SKID

During calcination the flint becomes lighter due to evaporation of chemically bound water. When the water evaporates it leaves small air voids in the crystalline flint. These voids have a particularly good effect on the anti-skid properties of the Luxovit®, as when abrasion of the stone takes place new air voids will be exposed and create new sharp edges meaning extended life span of the road marking material.



- The sharp, edgy grain structure of Luxovit® helps to prolong the functional life of the road marking.
- Calcined flint has proven to provide greater skid-resistance than most other aggregates.

- When flint is calcined the heating process generates a surface with a diverse texture and a high reflexion value.
- Luxovit® is a strong and consistent aggregate, which can be delivered in customized gradings either in bulk or bagged.



- The angular grain shape of Luxovit® provides a unique workability.
- The high friction texture of Luxovit® reduces the occurrence of aquaplaning.
- The mineralogical and physical properties of Luxovit® make the material exceptionally resistant to wear and polishing by traffic.



LUXOVIT® - TECHNICAL DATA

SiO ₂	97 %
Na ₂ O + K ₂ O + MgO	1 %
CaO	1,2 %
Fe ₂ O ₃	0,2 %
Al ₂ O ₃	0,5 %
Specific gravity	2350 kg/m ³
Bulk density	1200 kg/m ³
Water content	<0,1 %
Hardness (Moh's scale)	7
Content of organic ingredients	0 %
Alcali silica reactivity:	0 - no cracks (20 weeks)
Water absorption:	2 - 3 %
pH value:	app. 10
PSV:	55 - 60
Free from asbestos. Particles < 5 μ	< 0,2 %

Luxovit® is acid and base proof (normally used acids and bases).

When used under normal conditions in the building and road construction sectors the material can be considered frost proof.

The material is totally crushed and angular-shaped.

Luxol offers global delivery of calcined flint - both wet and dried and in customized fractions from 0-16 mm. Bulk delivery in ships, on trucks or in road tankers. Bagged delivery in 25 kg bags or big bags.

Global supplier with more than 30 years of experience
 Strong and proven aggregate solution for various industries
 Unique customer service and consistent quality
 Worldwide distribution and delivery on time

Luxol A/S is the world's leading supplier of calcined flint, i.e. flint that has been calcined or heated to high temperatures.

When the flint is calcined to approx. 1200°C the stone becomes white and crystalline in character. After calcination the white flint is crushed and sieved into the required fractions. The white crystalline flint, Luxovit®, is called the "Danish Diamond" due to its hardness.

Luxovit® is used as an aggregate in many different industries ranging from road construction, road marking and white prefabricated concrete elements to industrial flooring and resin industry and water filtration.

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