

DURACRYL®

FLOORING SYSTEMS

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Product Data Sheet

Duracryl GFN

Field of Application

Duracryl GFN is a textured floor covering. It is suitable for all types of industrial and commercial flooring, in particular:

- Food processing industry
- Mechanical workshops
- Warehouses
- Commercial areas
- Car parks

Characteristics

- The mechanical resistance is well over that of a reinforced concrete.
- Excellent resistance to abrasion.
- Extremely resistant to chemical aggression thanks to its transparent top coat
- Impermeable to water, but designed to enable water moisture from the sub-base to evaporate
- The coating is laid over large areas without joints, which improves security and hygiene. However, structural joints of the building must be treated appropriately.
- Non-slip surface

Product Composition

Duracryl GFN contains solvent free epoxy resin, hardener, coloured and natural quartz sand of various sizes. This product is manufactured under ISO 9001:2000 norms.

Specifications

Compressive strength	80N/mm ² (DIN 53454)
Flexural strength	27N/mm ² (DIN 53452)
Bond strength	>3N/mm ² (concrete failure)
Elasticity module (compression test)	14,000M/mm ² (DIN 53454)
Coefficient of linear thermal expansion	40x10E-6/°C (DIN 53752)
Shore hardness	75 (ISO 868)
Fire classification, PV LNE	M2 (F), 5.2 (CH), B1 (DIN 4102)
Fire classification Euroclass	B _{fl} -S1
Food test	Gelsenkirchen Institute of Hygiene
Chemical resistance	Excellent resistance (Table enclosed)

Preparing the sub-base

The compressive strength of the sub-base must meet the specific needs of the customer. The sub-base must be fully cured and free from cracks, dust, oil, lubricating oil and other soiling dirt. The concrete floor must be level and roughened by shot blasting to remove all laitance on the cement and to endure optimum bonding and adhesion for the covering. A regulating layer, which thickness will depend on the quality of the sub-base and the needs of the user, is then applied.

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Structure

Duracryl GFN is a multi-layer system made of:

- A regulating layer.
- A coloured base coat on which is scattered natural or coloured quartz sand.
- A transparent top coat sealer.
- Second transparent top coat sealer.
- *PROTEC MAT (PROTEC UV MAT) surface treatment.

*Surface treatment should not be applied whenever the surface has to be highly non-slip.

The total thickness of the system will vary between 3-7mm, depending on the sub-base quality and the needs of the client. Please see the attached diagram.

Curing and drying time

After it is hardened for about 12 hours at a temperature of 20°C, you may walk on the floor. After 48 hours, the floor covering will tolerate light mechanical traffic. After 7 days, the coating has practically reached its final mechanical resistance and its chemical stability. During this period neither water nor chemicals should come into contact with the floor. If this should occur, white or coloured streaks could appear on the surface. Should liquid be spilled on a new floor covering within the first seven days of its life, the surface should be wiped and dried immediately. In case of renovation, it is possible to work with accelerated systems which will reduce the working time considerably.

Maintenance

Duracryl GFN is a seamless and non porous system. It is therefore easy to clean with most types of industrial detergents. Rotary brushes and industrial vacuum cleaners may be used. Chemical cleaners are not recommended. In case of a severe soiling, scour and wet-vacuum the floor. A maintenance sheet is available upon request.

Hygiene

Duracryl GFN is a seamless and non porous system. When coved skirtings are made, the coating is applied in one continuous pass over the floor and skirtings. The system therefore meets all international hygiene and security standards, among which the GMP (General Manufacturing Procedures) and FDA (Food and Drug Administration) standards.

Colour Choice

Duracryl GFN is available in 12 standard colours. In certain cases, the working and environmental conditions may have an influence on the colour choice. A standard sample is used to select the final colour and texture.

Environment

All products are manufactured according to strict environmental legislation.
Packaging materials are recyclable.

The purpose of this data sheet is to provide advice based on the most up-to-date knowledge. Nevertheless, we do not accept and legal responsibility for the contents. This document is not legally binding, and may be amended without prior warning.