

DURACRYL®

FLOORING SYSTEMS

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Product Data Sheet

Duracryl CQF2 AST

Field of Application

Duracryl CQF2 AST is a antistatic smooth floor covering which is recommended for all areas where the build up of static electricity has to be avoided to prevent interference with sensitive measuring equipment. It is widely used in:

- Pharmaceutical and chemical industries
- Electronic assembly line
- Warehouses and production areas where remote controlled vehicles are used
- Hospitals
- Clean rooms

Characteristics

- The floor covering does not accumulate static electricity, it is a conductive system
- The Mechanical resistance is well over that of reinforced concrete
- Extremely resistant to chemical aggression thanks to its double transparent top coat
- Excellent resistance to abrasion
- The coating is laid over large areas without joints, which improves security and hygiene. However, structural joints of the building must be treated appropriately.
- When dry, the coating is non-slip
- Duracryl CQF2 AST is extremely decorative and is available in a wide range of colours.

Product Composition

Duracryl CQF2 AST contains solvent free epoxy resin, hardener and coloured and natural quartz sand of various sizes. This product is manufactured under ISO 9001:2000 norms.

Specifications

Earth resistance (R_E/R_G)	<10E6 Ohm (EN 61340-5-1/2)
(Earth resistance (R_E/R_G) without conductive primer)	<10E8 Ohm (EN 61340-5-1/2)
Conductivity	PV LCIE
Compressive strength	80N/mm ² (DIN 53454)
Flexial strength	27N/mm ² (DIN 53452)
Bond strength	>3N/mm ² (concrete failure)
Elasticity module (compression test)	15'000N/mm ² (DIN 53454)
Clean room/classified	In conformity with GMP and FDA standards
Coefficient of linear thermal expansion	46x10E-6/°C (DIN 53752)
Fire classification, PV LNE	M2 (F), 5.2 (CH), B1 (DIN 4102)
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 CQF2 AST is a multi-layer system made of:

- A regulating layer.
- Earth connection of a copper strip every 50 ($R_E/R_G < 10E6$ Ohm) to 100m² ($R_E/R_G < 10E8$ Ohm), by an electrician.
- A layer of Duracryl Primer Conduct (when $R_E/R_G < 10E6$ Ohm)
- An antistatic coloured base coat on which the coloured CQF2 AST sand is scattered.
- A transparent top coat sealer.
- A second transparent top coat sealer
- SURFACE SATINE PU 1500 surface treatment

The total thickness of the system will vary between 2.5 to 7mm, depending on the sub-base quality and on the needs. Please refer to drawing herewith.

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 CQF2 AST 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 severe soiling, scour and wet-vacuum the floor. A maintenance sheet is available upon request.

Hygiene

Duracryl CQF2 AST 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 CQF2 AST is available in 9 standard colours that may be seen on the Duracryl colour samples other colours are available in request. 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 Duracryl products are manufactured according to strict environmental legislation. Packaging materials are recyclable.

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ISO 9001:2000 guarantee

Duracryl CQF2 AST is a certified ISO 9001:2000 high quality product, manufactured under careful supervision and strict control. However, in order to ensure an end result that fully meets your specifications, the site has to be assessed thoroughly, the appropriate products selected and application instructions carefully observed. If you deal with a recommended Duracryl distributor, you may be assured of a quality service and a floor covering that meets your requirements.

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.