



DURATOP FLAKE

FIELD OF APPLICATION

Duratop is a widely used floor covering, which is recommended for: Electronic, micro-electronics, high-tech, mechanical and automobile industries, Pharmaceutical and chemical industries, bio-chemical and bio technology laboratories. Food production, tobacco industry, dairy farm, slaughter houses and kitchens, Mall and supermarkets, Public areas; including hospitals, schools, exhibition halls, stations and airports.

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

It is 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.

Duratop is extremely decorative which makes it an ideal choice for places frequented by the public. It is available in a wide range of colours.

PRODUCT COMPOSITION

Duratop contains solvent free epoxy resin, hardener and coloured flakes of various sizes. This product is manufactured under ISO9001:2000 norms

Specification

Compressive strength	80N/mm ² (DIN53454)
Flexural strength	27N/mm ² (DIN53452)
Bond strength	>3N/mm ² (concrete failure)
Elasticity module (compression test)	15,000M/mm ² (DIN53454)
Coefficient of linear thermal expansion	46x10E-6°C (DIN53752)
Shore hardness	78 (ISO868)
Fire classification, PV LNE	M2 (F), 5.2 (CH), B1 (DIN4102)
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 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.

STRUCTURE

Duratop is multi-layer system made of:

A regulating layer.

A coloured base coat on which the coloured flakes are scattered.

A transparent initial coat of epoxy sealer.

A transparent final coat of PU sealer

The surface treatment is not adapted when the floor has to be highly non-slip.

The total thickness of the system will vary between 2-7mm, depending on the sub-base quality and on the needs.

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 floor covering 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

Duratop 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.

LIFE EXPECTANCY

Duratop has a life expectancy in excess of 10 years when used in conjunction with heavy foot traffic.

HYGIENE

Duratop is a seamless and non porous system. When coved skirtings are made, the seal coats are 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.

COLOURS CHOICE

Duratop is available in a wide range of colours. In certain areas, 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.

TECHNICAL ADVICE

For further information on this or other Pro-Res products, please contact our Customer Care Department on 0044 1942 261155 or 01 903 5164