



Fortedur

Dry shake system for armour concrete floors with high duty containing ASA additive

1010, 1020, 1025, 1030, 1040

System characteristics

Fortedur system consist of dry powder mixture containing special cements, selected aggregates, chemical admixtures including **ASA** additive and further from complementary hardening sealer - **Fortecoat 1425, 1426**.

System application

Fortedur system is used to create durable topping of monolithic concrete floors with resistance to high duty, supreme resistance to abrasion and increased resistance to the penetration of oil and grease. Immediately after usual fitting of the concrete slab **Fortedur** is sprinkled on the fresh wet concrete.

System specialties

- **ASA additive** (Anti-Shrinkage Agent) is special ingredient of dry mixture, which rapidly decreases creation of cracks of topping securing higher volume stability. It improves final visual impression and consequently perfects mechanical characteristics of floor.
- **Fortecoat 1425, 1426** – is hardening sealer which by his perfect compatibility with dry part of system guarantees better hardening and increased resistance to the penetration of oil and grease.
- **High abrasive resistant micro particles**, which are creating upper floor layer of final system, are improving final abrasion resistance.
- Use of very fine spherical particles forms **SILICA EFFECT**, which lowers porosity and absorptivity and increases frost and corrosion resistance, compressive strength and solidity.

System advantages

- Multiplied lifetime of floor confronting standard concrete with minimal price increase
- High productivity and simplicity of floor laying
- Supreme resistance to high duty
- Increased resistance to the penetration of oil and grease
- Dust free

Packaging

25 kg sacks with PE internal insert.

20 l sheet can containing **Fortecoat 1425, 1426**

Recommendation

In order to achieve the perfect surface, eliminating dust, reducing water absorption and making cleaning easier, we recommend you apply the agents **FormulaForte 1610 Hard** or **FormulaForte 1605 Integral**, both according to the required surface hardening. These agents penetrate deeply into concrete, ensuring the hardening of the floor by chemically transforming soft particles into highly resistant compounds. They provide long-term and continuously increasing compactness and hydrophobicity of the surface by filling open pores of C-S-H with gel, and finally they provide aesthetic enhancement by increasing the gloss of the floor.

Technical parameters

Product type	1010	1020	1025	1030	1040
Aggregate	Sand 66,42%	Sintered oxides 55,42%	Sintered oxides+ metallic 27,71%+27,71%	Metallic aggregate 56,5%	Silicium carbide 30%
Compressive strength after 28 days	min. 65 MPa	min. 70 MPa	min. 80 MPa	min. 80 MPa	min. 80 MPa
Bohm abrasion resistance	5 cm ³ / 50 cm ²	2 cm ³ / 50 cm ²	1,5 cm ³ / 50 cm ²	1 cm ³ / 50 cm ²	1 cm ³ / 50 cm ²
BCA abrasion resistance	0,05 mm	0,035 mm	0,025 mm	0,02 mm	0,02 mm
Consumption	3 – 6 kg / m ²	3 – 6 kg / m ²	3 – 6 kg / m ²	3 – 6 kg / m ²	3 – 6 kg / m ²
Colour	See pricelist	See pricelist	See pricelist	See pricelist	See pricelist

Shelf life

12 month from production date in original unopened packs. Protect from frost and wet conditions.

Product attestation

Product is certified according to EN 13813.

Method of use

Fortedur should be spread and screeded evenly onto the freshly laid concrete slab in one or two stages, the total amount of the material being 3 – 6 kg / m².

Concrete surface must be leveled, capable for footing and free of surplus water before starting to apply dry shakes. Upper concrete layer is recovered by means of smoothing rotary trowel and then dry shake **Fortedur** should be sprinkled and screeded evenly upon newly laid concrete slab in one or two steps. After each spreading of dry shakes the surface is mechanically smoothed. Concrete surface slab must be without depressions and as well can't be dried-up!

After final smoothing the floor topping should be cured and sealed with **Fortecoat 1425, 1426**, which gives the surface additional hardening, prevents dusting and rapidly reduces liquid absorptions.

Maintenance and cleaning

The instructions for the routine cleaning, repair of possible small damages and additional colour surface treatment are at disposal.

Warnings.

- Avoid wind, draught and direct sunshine on construction site!
- Do not add any additional aggregates or admixtures to dry shake!
- Floor laying can be done only if temperature exceeds +5°C.
- Sack can be liquidated as "other waste"
- Using other sealer without foregoing approval is on own risk!
- The stated values were performed under laboratory conditions.
- Fortedur 1025 and Fortedur 1030 contain metallic filling protected by a special surface layer but still it may corrode in wet conditions.
- Before the application please check our web page www.fortemix.eu to be sure that you have the latest technical documentation.



Safety and health protection

The product contains cement; therefore it is necessary to wear protective gloves and goggles. Further data are mentioned in Safety sheet and description on product package.

FORTEMIX company is not liable for damages resulting from failure to comply with instructions and recommendations of manufacturer. ED 221-02-00



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