

ExperFloor CH 20

COLOR OPTIONS: Grey, Tile Red, Green**25**
±%2 KG

CEMENT BASED, QUARTZ AGGREGATED SURFACE HARDENER

Cement based, surface hardener material containing a high proportion of quartz aggregate and performance enhancing chemical additives; providing high abrasion, wear and dusting resistance on industrial floors exposed to light, medium, heavy loads and heavy vehicle traffic.

**EASY TO
APPLY****PROVIDES HIGH
MECHANICAL
DURABILITY**

TECHNICAL SPECIFICATIONS

Chemical Structure	Cement based, quartz aggregate powder containing performance enhancing chemical additives
Compressive Strength	C40
Bending Strength	F7
Böhme-Abrasion Strength Class	A6
Aggregate Hardness	7 Mohs Scale
Abrasion Strength	≤3,2 cm ³ /50 cm ²
Abrasion Resistance	≤3.000 mg
Pull-off Strength	≥1,0 N/mm ²
Impact Resistance	Class II
Reaction to Fire	A1
Capillary Water Absorption and Water Permeability	≤0,1 kg/m ² h ^{0,5}
Consumption	5,00 kg/m ²

* All technical values are calculated at +23°C and 50% relative humidity. Changes in temperature and humidity change the technical values.

ADVANTAGES

- Economical solution for industrial floors.
- Ready to use. Easy and fast to apply.
- Applied monolithically to fresh concrete.
- Becomes a part of the applied surface. Provides abrasion and impact resistance on the surface and joint edges.
- Provides high mechanical durability.
- Increases abrasion, impact and dusting resistance of the applied surface.
- Provides resistance to thermal shocks.
- Easy to use and clean. Increases the chemical resistance of the surface against oils.

APPLICATION AREAS

Used as a surface hardener to provide high mechanical abrasion, impact and dusting resistance:

- Indoors and outdoors,
- On floors subjected to light, medium and heavy loads such as factories, warehouses, workshops, parking lots, service stations, subway stations, underground passages, supermarkets, workplaces, residences, parks, gardens and pedestrian roads,
- On fresh concrete surfaces where high mechanical abrasion resistance is required and no dusting is desired.

SURFACE AND APPLICATION CONDITIONS

- Temperature should be between +5°C and +30°C during application.
- Ambient humidity for application should be between 40-80% relative humidity.

Floor Systems

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SURFACE PREPARATION

- The carrier concrete to be applied must be at least C25 class.
- If it is to be applied on old concrete, pour at least 7,5 cm thick C25 concrete before application. ExperPrime LT 60 A or ExperPrime EP 10 should be used between the new concrete and the old concrete to increase adherence and ensure adhesion.
- The surface of the fresh concrete to be applied should be troweled with a tray trowel and smoothed with a wooden trowel.
- Wait until the load-bearing concrete becomes walkable. The appropriate time is when the concrete has hardened enough to leave a footprint (average 0,5-1,5 cm deep) when stepped on.

APPLICATION DETAILS

- After the poured and screeded concrete has reached a walkable consistency, ExperFloor CH 20 is spread on the surface by hand or with a spreader.
- The material should not be left on the surface in clumps and should be spread over the surface until a homogeneous distribution is achieved.
- The material should be expected to absorb the water of the concrete and get a dark color. Care should be taken to ensure that the color is evenly distributed throughout the floor.
- After the color-change completed, the material is compressed with the tray trowel to ensure its integration with the concrete.
- When the surface is hard enough to walk on, the surface is smoothened by using finishing machine (power trowel) until the desired glossy surface is obtained.
- Following the completion of the application, ExperCure AC 10 curing material should be used for curing the concrete.

WARNINGS

- Do not apply in weather conditions below +5°C, above +30°C, in rainy and/or windy weather.
- Avoid application in areas that are frozen, in areas with the risk of freezing within 24 hours, in conditions that may prevent wind and application or that may damage the surface after application.
- Ambient humidity during the application should be between 40-80% relative humidity. At low relative humidity, surface efflorescence may occur, at high relative humidity, surface transpiration, slower curing and hardening may occur.

CONSUMPTION

- 5,00 kg/m²

STORAGE AND SHELF LIFE

- Should be stored in its unopened original packaging, in a closed, moisture-free, dry environment, protected from frost. Products should not be overloaded in a way to damage their packaging.
- Shelf life under appropriate storage conditions is 12 months from the date of production.

SAFETY PRECAUTIONS

- During use and storage, work clothes, protective gloves and masks should be used in accordance with the rules of Occupational and Labor Health. Eye, mouth and skin contact should be avoided and the contact area should be washed with plenty of water.
- In more dangerous situations or in case of ingestion of the product, a specialist doctor should be consulted immediately. Food and beverages should not be brought into the application areas. Keep out of the reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

PRODUCT LIABILITY

- Güven Madencilik İnş. San. ve Tic. A.Ş., is only responsible for the quality of EXPERAS branded products. All data presented are the result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the correct products in appropriate areas and conditions.

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LEGAL NOTES

• The information and recommendations for the use of EXPERAS branded products are provided in good faith based on technical knowledge and experience, provided that they are maintained and handled under normal conditions and in accordance with the recommendations. Along with the products, the areas of use and surfaces may vary widely. It is necessary to ensure that the correct EXPERAS branded products are applied on appropriate surfaces and under appropriate conditions. In addition, all information and instructions regarding commercial factors and technical conformity must be strictly followed. The manufacturer cannot be held responsible for any damages and problems that may occur if not complied with. The applicator/user is obliged to make the relevant checks to ensure these details. The specifications of EXPERAS branded products may be changed when necessary. The property rights of third parties must be respected. When the order is confirmed, all existing technical conditions are essential for sales and transportation.

REFERENCE STANDARDS

• TS EN 13813



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