Revision: 03-14/2/2024

Light Concrete 20

HLE20 light dry concrete manufactured by AYMAR S.A. is a dry concrete ready to be used only with the addition of water in the proportion indicated. It is made with light aggregates, cement and additives that give it good workability and optimum strength. It has a controlled granulometry and low density. HLE20 is a product characterised by its lightness, thermal and acoustic insulation, fire resistance and durability.

Composition

Composed of crushed metamorphic limestone aggregates for use in construction, as aggregates for concrete and mortars (EN 12620 and EN 13139), lightweight aggregates for concrete (EN 13055-1), cement CEM I - 42, 5R (EN 197-1 and UNE 80601) and organic and inorganic additives that improve its plasticity.

Field of application

HLE20 Lightweight Dry Concrete is a quality concrete suitable for general construction work in environments with normal exposure, high humidity, (XC2). Ideal for: rehabilitation of weakened slabs and dilapidated slabs, filling of air cavities, drainage, insulation on land, on sloping roofs and basement walls, screeds and walkable levelling, bathroom and kitchen floors, etc...

Instructions for use

- **Substrate preparation**: clean and dampen the substrates before application and wait for the water film to disappear.

  Prepare it with suitable meshes to reinforce the concrete.
- **Preparation of the mixture**: always use clean, running water.

  Add 2.5-3 l. of mixing water per bag and mix mechanically until a homogeneous mass is obtained and apply.
- **Application of the paste**: the minimum thickness of the application will be 6 cm, always allowing a complete compaction of the mass.

  Once the mixture has been kneaded, it shall be applied before the beginning of setting..

Recommendations for use

- Provide expansion joints every 50m2 and at the joints with pillars.
- In the case of roofs with vehicular traffic, the surface layer must be at least 8 cm thick.
- Excess water causes a decrease in resistance.
- Apply on substrates with a certain degree of absorption, humidity and perfectly set.
- Allow to set for a minimum period of 12 hours under normal conditions.
- Do not apply at temperatures below 5ºC or above 35ºC.
- Avoid frost, strong winds and exposure to intense sunlight during application.
- The addition of other material (additives, cement, etc.) may change the behaviour and characteristics of the product.

Technical data

Scope	Characteristic	Valor	Test standard
Product	Normative designation	HLE20/B/10/XC2 LC16/18-XC2-Dmax10-S2	RD 470/2021 EN 206
	Appearance	Gray	
	Maximum aggregate size	10 mm	EN 933-2
	Maximum water/cement ratio	<0,6	
	Powder density	1300 Kg/m^3	
	Density fresh concrete	1600 Kg/m^3	EN 12350-6
Application	Mixing water	16%	
	Consistency of fresh concrete - Slump	60-90 mm	EN 12350-2
	Performance	14 Kg/m^2 and cm thickness	
Technical characteristics	Compressive strength	≥20 N/mm^2	EN 12390-3
	Hardened concrete density	1250 ± 60 kg/m^3	EN 12390-7
	Thermal conductivity	1 W/mK	EN 12664
	Thermal resistance	0,064 m2 K/W	
	Heat flow density	234,74 W/ m^2	
Presentation	Plastic sacks of approx. 20 kg. Store, a maximum of 12 months from the date of manufacture, in the original closed container, in a covered, dry and ventilated place.		

For safety precautions for the use, storage and disposal of the product, please refer to the Safety Data Sheet available on the web site www.aymarsa.es

NOTE: The information contained in this technical sheet is based on our experience and on tests carried out in specialised laboratories. The characteristics of the resulting product will depend on the correct preparation and application on site by the user. If these conditions are not met, the characteristics indicated above will not be achieved.

AYMAR

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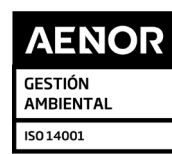
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