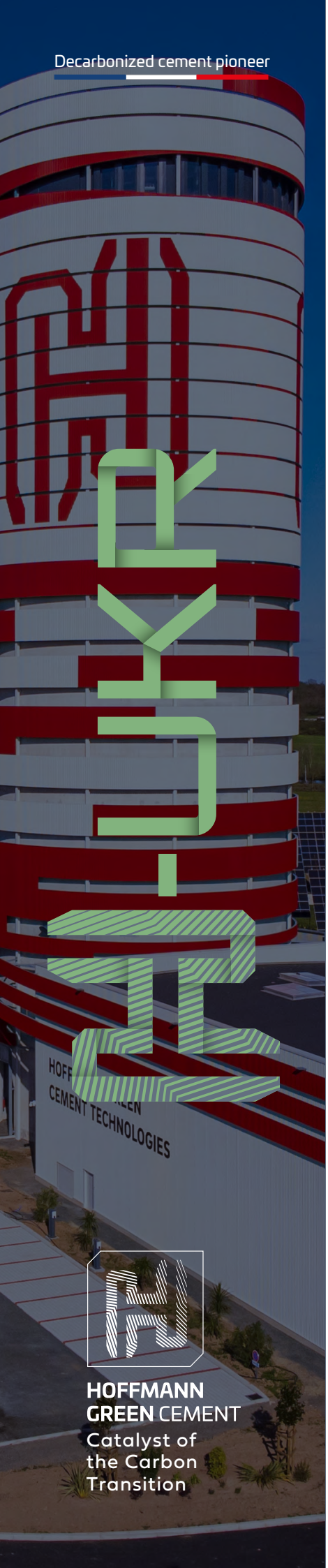

H-UKR application sheet

H-UKR cement is suitable in reinforced or unreinforced structures.
It can be used in the following areas:

- Industrial buildings, collective housing, and individual houses: standard mortar masonry and standard concrete structures (foundations, slabs, posts, beams, wall ties, lintels, etc.)
- Civil engineering and mass concrete works: rafts for wind turbines, foundations, etc.
- Agricultural concrete: slurry pits, silos, and storage areas (fertilizer, manure, silage, etc.)
- Concrete for wastewater treatment plants
- Lightweight precast with appropriate heat treatment.

Recommendations for use

- Pouring temperature: +5°C to +40°C.
- Ensure that equipment is clean before producing mortar or concrete.
- Do not mix H-UKR cement with any other material such as Portland cement, lime, etc.
- Aim for a Water/Cement ratio as low as possible, compatible with the consistency of the mortar/concrete for its use.
- Only use admixtures recommended by HOFFMANN GREEN CEMENT TECHNOLOGIES.
- For pouring horizontal surfaces, it is possible to add anti-crack fibers (glass fiber, cellulose, or polypropylene) to the mixture. Always use a curing product to prevent the concrete from drying out. Water curing is prohibited; commercial treatment products are suitable.

- Use appropriate personal protective equipment (PPE): pants, long-sleeved clothing, gloves, waterproof shoes, safety glasses, etc.
- Store bags of H-UKR cement in a dry location.

Properties

- Easy to use.
- Multipurpose cement for mortar and concrete.
- Appropriate usage time for implementation.
- Suitable for aggressive environments, such as marine and sulfated waters.
- Carbon footprint reduced by 80% compared to an OPC.
- Intended for all areas of construction applications.
- Concrete with a compressive strength class of 16 MPa [N/mm²] to 50 MPa [N/mm²] (on Cylindrical Concrete Specimens at 28 days)
- Made in France.

H-UKR COMPRESSIVE STRENGTH ACCORDING TO INTERNAL PROTOCOL

Compressive Strength in MPa (N/mm2)	
7d	**28d**
52.0	63.8

FORMWORK REMOVAL TIME GUIDELINES

Average temperature	Time required for removing from structures after pouring
Between 20°C and 40°C	The day after
Between 15°C and 20°C	The day after

RECOMMENDED QUANTITIES FOR MORTAR AND CONCRETE COMPOSITIONS INTENDED FOR MASONRY WORK.

It is important to comply with the quantities and professional standards for implementation

Quantity for one 25-kg bag of H-UKR cement	Equivalent quantity of cement	Sand 0/4 mm	Gravel 4/10 mm to 4/20 mm	Water	Mixing Volume
Masonry concrete	350 kg/m³	4 buckets	5 buckets	≈ 12 liters	≈ 70 liters
Masonry mortar	300 kg/m³	8 buckets	-	≈ 20 liters	≈ 80 liters
	350 kg/m³	7 buckets	-	≈ 17 liters	≈ 70 liters
Traditional screed mortar (dry)	300 kg/m³	8 buckets	-	≈ 14 liters	≈ 85 liters
	350 kg/m³	7 buckets	-	≈ 12 liters	≈ 75 liters
Paving mortar	250 kg/m³	10 buckets	-	≈ 25 liters	≈ 100 liters
	300 kg/m³	8 buckets	-	≈ 20 liters	≈ 80 liters

The quantities are given for information purposes only. They may vary depending on the mineralogical nature and characteristics of the sand and gravel used.
Water quantities are mentioned for sand and dry gravel. The quantity of water to use during mixing must be adapted according to the humidity of the sand and gravel.
1 bucket = 10 liters