weberep 331 HCS (Qatar)

Formerly "Conrep.331 HCS"

TECHNICAL AND REPAIR MORTARS

Non shrink high strength thixotropic repair mortar

PRODUCT

weberep 331 HCS is a ready to use mortar fiber-reinforced. It is made of sand (reconstituted grain size range), special cement, fibres, and special additives that provide special properties:
non-shrinking, thixotropic, very high strength, excellent bond to rough and damp surfaces, compactness; its closed porosity slows down carbonation. It has low permeability and is extremely durable. The formulation of **weberep 331 HCS** provides excellent strength, making it a high quality all purpose mortar for different applications including repair of high strength concrete.

PROPERTIES

- Non-shrinking
- Very High strength
- Normal setting
- Good resistance to sea water and to high-sulphate water
- Thixotropic: It can be applied in a thick layer
- Prevents steel reinforcements from corrosion

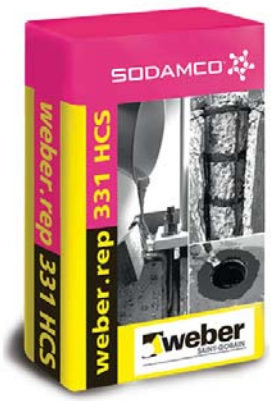
SCOPE OF USE

- Repair of concrete surfaces, honeycombing, edges of steps and all types of load bearing situations.
- Restoring the structure of damaged construction: columns, slabs, vault, mats and dam overflows.
- Reinforcing of weakened structures such as balconies, pedestals and cornices.

CHARACTERISTICS

Active ingredients	hydraulic binders, synthetic fibres, without any chlorides or metal particles
Appearance	Grey Powder
Grain size	0 to 2.5 mm
Mixing water	7.5 liters / 50 kg bag 3.75 liters / 25 g bag
Yield	25 liters / 50 kg bag 12.5 liters / 25 kg bag
Fresh Density(Kg/m³)	2230 (BS 1881:83)
Thickness	5 to 50 mm in one coat

Compressive Strength:	
1 day (BS EN 12190)	25 N/mm²
7 days (BS EN 12190)	>50 N/mm²
28 days (BS EN 12190)	>70 N/mm²
Flexural Strength:	
1 day (BS EN 196-1)	-
7 days (BS EN 196-1)	>8 N/mm²
28 days (BS EN 196-1)	>10 N/mm²



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
-	-	-	-	25 kg	-	-	-

Pull Off Stress:	
28 days (BS 1881 Part 207)	> 1.3 N/mm²
Length Change:	
28 days (ASTM C 157-03)	0.041%
Tensile Strength:	
7 days (BS 6319 -7- 1985)	1.8 N/mm²
28 days (BS 6319 -7- 1985)	3.8 N/mm²

APPLICABLE STANDARDS

BS EN 196 Part 1
BS 1881 Part 207
ASTM C 157-03
BS 6319 – Part 7- 1985
BS 1881: 83
BS EN 12190

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

weberep 331 HCS may be applied on sound concrete, masonry, rock or similar materials.
Remove damaged concrete and laitance by chipping with a pick or cold-chiselling to get a rough surface. The area must be surrounded by clean edges. Do not feather edges.
The surface must also be free from any trace of grease or oil.

Brush or scrape corroded steel with a metal brush, or sand it

to remove all rust particles.
Remove dust from all surfaces to be fixed.
For an optimal protection of steel, apply **weberep 370 PF** by brush prior to **weberep 331 HCS**.
Saturate the surface with water by copiously spraying just before application, and if possible, 6 hours before application as well.

PRODUCT PREPARATION

Mix a 50 kg bag **weberep 331 HCS** with 7.5 litres of clean water until a smooth paste is obtained (mix 3.75 lit. of water with a 25 kg bag)

PRODUCT APPLICATION

weberep 331 HCS can be applied:

- Manually with a trowel
- By using a dry or wet spraying machine
- Or by pumping

weberep 331 HCS must be used within one hour from mixing. Re-mixing with an extra amount of water is forbidden.
After application, protect the surface by using a curing compound like **weberad cure WH** or **weberad cure Y 40** by covering with properly secured plastic sheeting. Ideal application temperature is between + 5ºC and + 35ºC. If the application temperature is higher than 35 C, make sure to use cool water to keep the mixed mortar temperature below 30 ºC.

PRECAUTIONS

For thickness more than 50 mm, it is recommended to apply **weberep 331 HCS** in 2 layers. When the first coat is applied it must be directly roughened to increase bonding with the second coat.

STORAGE

12 months after manufacturing date in original and non-open packaging , under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

The information included on this Technical Data Sheet is the sole property of Saint-Gobain Middle East Holding SAL (previously SODAMCO Holding). The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.

PG:23
*Available only in Qatar