

Product Description

A 1700°C (3090°F) grade, low cement castable with exceptionally high fluidity, allowing installation of the most intricate shapes with minimal water.

Properties	Morflo 170
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1700 (3090)
Estimated weight of dry material/ m ³ of construction, kg (lb)	2800 (175)
Water addition, % by weight	5.5 - 6.5
Maximum grain size, mm	6
Packaging in bags, kg (lb)	25 (55)

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Morflo™ 170

Product Data Sheet



Density, kg/m ³ (pcf), ASTM C134		
	oven dried, 110°C (230°F)	2800 (174.7)
Cold crushing strength, MPa (psi), ASTM C133		
	oven dried, 110°C (230°F)	100-180 (14500-26100)
	after 5 hours firing, 815°C (1500°F)	100-180 (14500-26100)
	after 5 hours firing, 1000°C (1832°F)	150-200 (21750-29000)
	after 5 hours firing, 1600°C (2912°F)	150-200 (21750-29000)
Permanent linear change, %, ASTM C113		
	after 5 hours firing, 815°C (1500°F)	-0.2
	after 5 hours firing, 1000°C (1832°F)	-0.3
	after 5 hours firing, 1600°C (2912°F)	-1.5
Thermal conductivity, W/m•K (BTU•in./hr•ft ² •°F), ASTM C201/417		
	600°C (1112°F)	2.3 (15.96)
Chemical composition, %		
	Alumina, Al ₂ O ₃	85
	Silica, SiO ₂	10
	Calcium Oxide, CaO	1.5
	Ferric Oxide, Fe ₂ O ₃	1

Instruction for Use

Highest strength is obtained with monolithic refractory by using the least amount of clean mixing water that will allow thorough working of material into place by vibrating. A mechanical mixer is required for proper placement (paddle type mortar mixers are best suited). After adding the recommended amount of water, mix for 4-6 minutes. Place material within 20 minutes after mixing.

This must be installed under closely controlled conditions using mechanical mixers and vibration. The resultant concrete has a dense, low permeability structure and care must be exercised during initial heating. At top water material can be placed at minimum or no vibration.

Storage and Shelf Life

- Should be stored in dry conditions, unopened packaging on pallets. Do not store on ground. Keep out of rain and damp conditions.
- Shelf life is of six months with original packaging, double shrink film and dehydrating agent provided if the monolithic is stored under these recommended conditions.

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