

POMICAL FOR STRUCTURAL USE 44

MIXTURE OF LIGHTWEIGHT AGGREGATES FOR CLS STRUCTURAL

COMPOSITION:

POMICAL FOR STRUCTUR USE 44 is a mixture of alveolar volcanic aggregates of remarkable lightness and great isolating properties resulting from natural extensions of effusive magmatic minerals) *in granulometric curves of 3/10 mm. for the production of lighter thermo insulating and soundproof structural concrete* at low specific weight and easy pumping. It is a non-toxic product (Silica Free).

PHYSICAL PROPERTIES	
GRAINS FORM	Spheroidal
GRAIN SIZE	3-10 mm.
RESISTANT AGAINST FRAGMENTATION/CRASHING	1,00 N/mm ²
TOTAL WATER CONTENT	6,7%
WATER ABSORPTION	6,9%
SPECIFIC WEIGHT IN PILE	0,827 Mg/m ³
SPECIFIC WEIGHT DRY SATURATED SURFACE	1,95 Mg/m ³ + 5%
TEMPERATURE RESISTANT	1140° C - 1150° C

CHEMICAL PROPERTIES	
ALKAL-SILICA REACTIVITY (average expansion % after 90 days)	0,0161% (not reactive)
CHLORIDES	0,001%
SOLUBLE SULPHATES IN ACID	< 0,05%
TOTAL SULFUR	< 0,04%
CONTENT DETERMINATION OF HUMIC/SUBSTANCE	Absent
RADIOACTIVITY EMISSION	NDP
HEAVY METALS EMISSION	NPD
POLYAROMATIC HYDROCARBONS EMISSION	NDP
OTHER DANGEROUS SUBSTANCES EMISSION	NDP
NON-TOXIC PRODUCT (Silica Free)	

Using POMICAL FOR STRUCTURAL USE 44, cement, water and any additives, an optimized CONCRETE is obtained with following properties:

LIGHTNESS	Dry density approx. 1850 Kg/MC
RESISTANT AGAINST COMPRESSION	RCK approx. 44 N/mm ²
THERMAL INSULATION	Good thermal insulation
SOUND INSULATION	Good sound insulation
TRASPIRABILITY	$\mu=4$ ⁽¹⁾
EXCELLENT WORKABILITY	
FIRE-RESISTANT	
EXTREMELY EASY PUMPING	
BLEEDING ABSENCE	
DURABILITY	
ECOLOGICAL	
EXCELLENT VISUAL APPEARANCE OF THE SURFACE	

WORDINGS PROPOSED					
Resistance Class (N/mm ²)	Minimum cement dosage 42,5 (kg/m ³)	Water cement ratio	Specific weight (kg/m ³)	Specific weight hardened concrete (kg/m ³)	Sand percentage 0-6 mm.
LC 30/33	420	0,50	2021	1859	35%
LC 35/38	460	0,48	2018	1857	35%
LC 40/44	510	0,45	2018	1857	35%

*N.B. All proposed formulations must be pre-tested by a qualified laboratory.
Any variations in dosages can alter the final characteristics of the product.*

AVAILABLE UNPACKED, IN BAGS (BIG-BAGS) 1,8MC SIZE AND IN 33LT BAGS PACKED ON PALLETS (55 bags on each pallet)

THE AVERAGE LOAD VOLUME FOR COMPLETE LOADS IS ABOUT 31 MC.

This mineral is a natural raw material. All data indicated above are therefore approximate and do not provide any warranty.

(1) Certificated by Politecnico di Torino n. 1470 from the 08/06/2004