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1	Acide .		

Foam concrete is a pumpable and self-levelling cementitious material with a typical air content between 40-80% and void sizes between 0.1-1.5 mm. It is developed by **Aercrete Technology AB** through patented technology, using synthetic foam (Aercell-A7[®]). Due to the low density and highly porous structure, it has good functional properties such as fire resistance, thermal conductivity and acoustic performance. It is mainly used as filling material, soil stabilisation, road sub-bases, insulation of foundations, runway arresting systems and sandwich fill for precast units and concrete blocks.

Name of product	Foam concrete				
Function of product			Insulation		
Form		Bulk material (fluid/solid)			
Raw Material		Cement, water and surfactant			
	- -	Properties			
Property	Unit	Value	Test methods/standardisation		
	Chemical	physical propert	ies		
Bulk density	kg/m ³	400-1600	Wet density		
Structures and construction					
Dimensions of product	m		Customised dimensions		
	Macha				
Comprosive strongth	N/mm ²		EN 12200 2		
	N/mm^2	1-10	EN 12390-5		
Flexural strength		0.2-1	EN 12390-5		
Modulus of elasticity	kN/mm ⁻	1-10	EN 12390-13		
Stiffness	N/mm²	20	(@ 400 kg/m²)		
Shrinkage	mm/m	4.5-0.5			
	Thor	mal properties			
Thermal conductivity	W/(m·K)	0 10-0 65	EN 12667		
Specific heat capacity	J/(kg·K)	1050			
	Hygroth	nermal properties	S		
Water vapour diffusion resistance factor					
Moisture buffer value	kg/(m ² ·%RH)				
Water vapour permeability	kg/(m·s·Pa)				
	Acou	stic properties			
Dynamic stiffness, s'	MN/m ³	1500	ISO 9052-1 (@ 800 kg/m ³)		
Sound reduction index, R _w (C;C _{tr})	dB	40(0;-3)	ISO 10140-2 (@ 800 kg/m ³)		
		Fire Safety			
Reaction to fire		Incombustible			
Resistance to fire	Minutes	_			
	Environ	mental propertie	(0, 400, 1, -1, -1, -3)		
Embodied energy (% renewable)	MJ/Kg	6.58 (3.7%)	(@ 400 kg/m ⁻)		
		0.50	$FO = 111^{-}$ Of Insulation material for R=1 11-K/W		
GHG emissions	kg CO ₂ eq	0.58			
GHG emissions	kg CO ₂ eq/FU*		*FU= 1m ² of insulation material for R=1 m ² K/W		
TVOC (SVOC)	µg/m³				
Radon	Bq/m ³				
Photocatalytic capacity		1			