

GYPSOL

A SCREED SPECIFICALLY DESIGNED FOR USE IN HIGH RISE APPLICATIONS



CASE STUDY APARTMENTS FOR BARRATT HOMES

Gypsol Summit is suitable for high rise applications where the screed needs to be pumped above 10 stories.

For this project screed needed to be pumped to 26 floors had to be guaranteed to achieve a minimum of 80kg/m². In addition each apartment required a resilient acoustic membrane to ensure that the building met the relevant building regulations with regard to sound transmission. The screed needed to be manufactured off site before delivery and installation to minimise disruption to the surrounding area. Gypsol Summit not only exhibited the right density criteria, but also allowed the screed to be pumped from a single ground level pump directly to the part of the building it was required.

The in-situ concrete slab, used to form the structural floor slab at intermediate floor level, was cleaned prior to the installation of the resilient acoustic membrane. Underfloor heating and 50mm of Gypsol Summit screed were installed.

Like other screeds and concretes, and to meet the standards of the contract flooring association's guide, the screed surface was fully sanded to remove laitance and other extraneous construction debris prior to the installation of loose lay carpets, tiles and vinyl floor coverings.

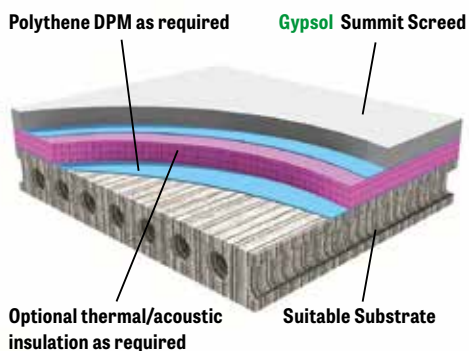
SUMMIT DATASHEET

DESCRIPTION

Gypsol Summit self compacting flowing screed is made to exacting standards by quality assured manufacturers to BS EN 13813:2002. It is a combination of high quality **Gypsol** binder, specially selected sands, water and special additives where required. It is designed specifically for use in high rise applications where the screed needs to be pumped to ten stories and above without the danger of segregation. Care must be taken to ensure that the pump used is suitable for the application e.g. a multi cylinder piston pump. The screed is suitable for the encapsulation of an underfloor heating system, either electric or warm water.

Gypsol Summit is suitable for most construction types including steel frame, concrete frame, lightweight steel and traditional masonry construction. It is suitable for residential and commercial properties, and where required can be used to improve the acoustic performance of the floor to meet or exceed Part E of building regulations. **Gypsol** Summit screed also improves a floor's environmental and durability characteristics, and gives a concrete feel to a timber floor. For project specific advice on design and for a Model NBS Specification Template contact our technical and specifications team on **01928 574574**.

TYPICAL SCHEMATIC



PHYSICAL DATA

Appearance	Off white fluid mortar	
Density	Wet	2200kg/m ³
	Dry	2000kg/m ³
Minimum Strength (28 days)	C25-F4	
Required Flow (EN 13454-2)	230mm to 270mm	
Reaction to Fire	Class A ₁ non combustible	

PERFORMANCE DATA

Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5 to 7 days
Drying (50mm depth)	At 20°C and 60% RH - 28 days ^[1]
	Active force drying - 13 days ^[1]
	Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.
	^[1] Independently tested and verified by Action Dry Ltd. Full report available on request.
Force Drying	Can be force dried after 7 days

ENVIRONMENTAL DATA

Recycled Content	Binder	98%
	Mortar	up to 40%
Carbon Emissions	Binder	10 to 30kg/tonne
	Mortar	30 to 50kg/m ³
VOC	Virtually zero	
Recyclability	100%	

HEALTH AND SAFETY DATA

Gypsol Summit screeds are delivered to site ready to use via offsite mixing plants, removing the need for labour intensive site mixing and associated mixing equipment.

Gypsol Summit screeds are pumped directly to where they are needed, removing much of the manual handling operations required to install other screeds.

Gypsol Summit screeds can be pumped to height, removing need for cranes and skips and other lifting equipment.

Gypsol Summit screeds are finished using a lightweight dappling bar, requiring no secondary compaction and thus removing most of the physical work needed to lay other screeds. This significantly reduces the negative impact on the musculo-skeletal system of installing contractors. For material safety information please see the relevant health and safety data sheets.



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