GYPSOL

A SELF COMPACTING FLOWING ANHYDRITE SCREED MADE TO EXACTING STANDARDS

CASE STUDY
THE MALTINGS CARE HOME

For this 50-bedroom care home project the main contractor identified flowing screed as the right product for the building. The project had several special screed requirements that the main contractor sought advice on before finalising the specification. The screed was to be placed on insulation at both ground and first floor underfloor heating systems. It needed to be as thin as possible as headroom was tight. It needed to be installed quickly because, in common with all such projects, time scales were tight. Finally it needed to offer a rapid drying time to allow completion of floor coverings.

Our advice was that Gypsol Classic would be the most appropriate and cost effective solution to meet all of the specified requirements. An NBS specification was completed by our Technical and Specifications manager and once approved by the architect screeding commenced.

Once installed, the screed was dried using the underfloor heating as a means of force drying the screed accompanied by dehumidifiers to remove the moisture from the air above the screed thus ensuring good drying conditions and a rapidly completed drying phase.

CLASSIC DATASHEET

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DESCRIPTION

Gypsol Classic 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 to offer a smooth flat and level surface for use in the vast majority of interior non wearing applications where a subsequent floor covering is to be used. **Gypsol** Classic screed is perfectly suited to use in floating, bonded or unbonded construction and can easily incorporate electric or warm water underfloor heating systems.

This data sheet offers key technical information to help your selection of **Gypsol** Classic as your screed of choice. For project specific advice on design and for a Model NBS Specification Template contact our technical and specifications team.

PHYSICAL DATA

Appearance	Off white fluid mortar	
Density	Wet	2200kg/m3
	Dry	2000kg/m3
Minimum Strength	C25-F4	
Required Flow (EN 13454-2)	230mm to 270mm	
Reaction to Fire	Class $A1_{fl}$ 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

APPLICATION DATA

Minimum Depth	Bonded	25mm
	Unbonded	30mm
	Floating	35mm Domestic
		40mm Commercial
	Acoustic	80kg @ 40mm
	Cover to conduits	25mm

Gypsol screeds are suitable for use on most substrate types

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

Gypsol screeds are generally pumped using equipment with closed or grilled dispensing hoppers, removing risk of contact with moving machinery.

Gypsol screeds are finished using a lightweight dappling bar requiring no secondary compaction, 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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