

# Gypsol Classic

*A self compacting flowing anhydrite screed made to exacting standards*



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.

#### **Case Study - The Maltings Care Home**

For this 50-bedroom care home project the main contractor identified flowing screed as the right product to use. The project had several special screed requirements; the screed was to be placed on insulation for both ground and first floor underfloor heating systems; it needed to be as thin as possible as time scales were tight; and 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 the requirements. An NBS specification was completed by our Technical and Specifications Manager and once approved by the architect screeding began. Once installed, the screed was dried using the underfloor heating as a means of force drying the screed accompanied by dehumidifiers to remove moisture from the air above the screed, ensuring good drying conditions and a quick drying phase.



Gypsol Classic 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.

#### 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 gridded 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 musculoskeletal system of installing contractors.
- For material safety information please see the relevant health and safety data sheets.
- Noise and vibration dampening.
- Thermal energy storage.

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#### Physical data

Appearance	Off white fluid mortar
Density	Wet 2200kg/m <sup>3</sup> Dry 2000kg/m <sup>3</sup>
Minimum Strength	C25-F4
Required Flow (EN 13454-2)	230mm to 270mm
Reaction to Fire	Class A1fl 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 <sup>[1]</sup> Active force drying - 13 days <sup>[1]</sup>
	Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.
	<sup>[1]</sup> 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 <sup>3</sup>
VOC		Virtually zero
Recyclability		100%