

Advance 5

PM Advance 5 Screed is Premier Mortars new rapid-drying, semi-dry sand/cement screed aimed at time-critical projects!

Once installed, screeds need to dry fully before the final floor finish is applied and standard screeds typically dry in-situ at a rate of 1mm of depth per day. This drying time can be dramatically reduced by using our branded 'Premier Screed', which dries as 3mm depth per day; however, at a typical depth of 75mm, there can still be a 25 day delay to the project before a floor covering can be fitted.

Premier Mortars' new PM Advance 5 can now deliver substantial time-savings to site programmes as it has been proven to offer a drying time of 5-6mm per day. The high performance chemical admixture incorporated in PM Advance 5 has been developed in conjunction with Sheffield Hallam University, who have run detailed laboratory tests to determine the level of performance offered by this material against a variety of competitor offerings. The report concluded that PM Advance 5 screed delivers a faster drying time than all other screeds on test. Rapid performance products are increasing in demand in today's fast moving contract market and we are therefore pleased to add PM Advance 5 Screed to our ever expanding portfolio of products.

DESCRIPTION

PM Advance 5 is a factory batched floor screed that has been designed to allow the release of trapped water in the matrix of the screed to maximise the hydration of the cement thereby giving faster drying times, increased strength and lower porosity.

PM Advance 5 has been developed to allow the drying times of cement based screeds to be reduced to 5mm per day as opposed to our conventional screeds having a drying time of 1mm per day.

PM Advance 5 has been developed to compete against the leading specification driven fast drying, high strength screeds. having a drying time of 1mm per day.

BENEFITS: POLYMER SBR SCREED

- Drying times of 5mm per day
- Reduced shrinkage of the screed
- Faster acceptance of foot traffic to the screed
- Strong and durable surface
- Reduces waiting time to final finish trades
- Low porosity
- Easier screed placing and compaction
- Faster placing of floor finishes

PROPERTIES

Density	2100 - 2200kg/m ³
BRE Drop Hammer Test (BS 8204-1)	Category A
Compressive Strength	4 1:4 > 25.0N/mm ² / 1:3 > 30.0N/mm ²
Drying Time	4 - 5mm der day*
Light Foot Traffic	12 hours*
Full Traffic	7 days*

*The figures listed are laboratory tests carried out in controlled conditions. (20°C/50%RH)

APPLICATIONS

PM Advance 5 is suitable for fully bonded, unbonded, floating and under heated screeds with or without fibre reinforcement.
PM Advance 5 is suitable for use in high traffic areas such as airports, shopping centres and hospitals where a high strength (Category A) screed is required. This screed is batched to produce a levelling screed that is capable of receiving floor coverings such as tiles, wood, carpet, vinyl and other toppings listed in BS8203:2001.

TECHNICAL AND AUTHORITY

PM Advance 5 is manufactured to the requirements of BS EN 13813 under a quality scheme certified to ISO 9001 and regularly tested to the requirements of the latest British Standards. All of our raw materials conform to British and European standards to ensure quality and consistency.

MATERIALS AND MANUFACTURE

With the benefit of many years of experience in screed manufacture we have carefully selected the best performing specialist materials from around the UK. The mixing process is carried out to fine tolerances using computer controlled batching plants, supervised by our experienced team of Plant Managers. Our products contain blends of the following materials:
Cement to BS EN 197 - 1
Well graded washed fine aggregate to BS EN 12629/BS EN 13139

SUITABLE BASES

- PM Advance 5 is suitable for use on;
- Solid concrete ground floor slabs.
 - Reinforced precast concrete units and beams.
 - In situ suspended floors.
 - Topping to lightweight screeds.

COMPATIBILITY

PM Advance 5 is compatible with all normal building materials, but wet cementitious products may attack certain materials e.g. aluminium.

SITE PRACTICE

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SITE STORAGE

Screed should be tipped into a clean dry area and sheeted to protect from the elements.

PREPARATION

The base substrate must be clean and in particular free from lime, gypsum, plaster, dust, oil and grease. Base concrete should be swept to remove any loose material and wetted with water. A bonding material should be applied just before the screed and care should be taken to ensure no deep pools are formed and the bonding agent does not dry before the screed is placed.

LAYING

Screed should be laid in accordance with BS8204.

CURING

For a 50 – 75mm cementitious screed an average drying time of 7 days per 25mm should be allowed before laying of the floor covering for depths lower than 50mm the average drying time may be reduced to 3 days subject to the substrate being free from moisture. However, low temperatures or excessive moisture in the underlying concrete will delay the drying of the screed. Curing is always recommended for cementitious products although is not always needed. Protect the sand/cement screed from premature drying due to wind, strong sun and enforced drying conditions.

Do not use hot air blowers, under oor heating or other means of accelerated drying during the early life of the screed. Forced drying using underoor heating may only be used in accordance with the relevant Code of Practice.

DURABILITY

No problems should occur if the correct screed material has been specied. Premier Mortars screeds are not designed as a wearing surface and should be protected from extremes of weather such as frost.

HEALTH AND SAFETY

Contact with wet cement or materials containing cement can cause severe burns and contact dermatitis. Please consult our health and safety datasheet for further information.

FIRE PROTECTION

Premier Mortars screeds are classified as Class A1 without testing in accordance with BS EN 13501-1 (Commission Directive 96/603/EC).

DELIVERY

As with our range of screeds PM Advance 5 can be delivered direct to site at a time to suit you, or collected in your own vehicle from your local depot. PM Advance 5 is set retarded for either 8 or 12 hours to ensure the correct workable life for the completion of your projects.

APPLICATION

Monolithic Construction	Minimum Thickness 15mm
Bonded Construction	Minimum Thickness 40mm
Unbonded Construction	Minimum Thickness 50mm
Floating Construction	Minimum Thickness 75mm