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DESCRIPTION

Easy Mix Speed Screed 24 is a pre-blended, rapid set, screed mixture for the installation of cementitious screeds and beds. The rapid cure allows floor coverings to be installed faster than using traditional sand/cement screeds.

FEATURES AND BENEFITS

- Premixed, single component system – just add clean water.
- Quick setting allowing placement of tiles from 4 hours for ceramic tiles.
- Available in 20kg bags minimising waste.
- Suitable for thin and thick bed applications – no need for multiple products.
- Add Easy Mix Prime & Bind for bonded screed and enhanced performance.

RECOMMENDATIONS

- Suitable for use under ceramic tiles, natural stone and Terazzo after 4 hours cure.
- Suitable for use under resilient and textile floor coverings after 24 hours cure.
- Suitable for use under timber and parquet floors after 48 hours cure.
- Suitable for use under water based waterproofing membrane systems after 24 hours cure, prior to fixing of relevant and compatible floor coverings.
- Suitable for use as a screed under most under floor heating systems. Easy Mix Speed Screed 24 can also be used as a screed bed over certain underfloor heating systems. Contact Easy Mix Technical Services for more detailed information.

Special notes for use over the following:

- On wooden, rubber, or metal substrates, Speed Screed 24 should be applied as an unbonded screed, with a minimum bed thickness of 40mm and it must be reinforced with an appropriate wire mesh.

GUIDELINES FOR COVERAGE

Application	Application Details	Cover Estimate (smooth surface) m ² /litre (mix)	Cover Estimate (rough surface) m ² /litre (mix)	Litres Easy Mix Prime & Bind needed (mix)
Cement Slurry Bond Coat	1:1 (v/v) Easy Mix Prime & Bind/Water mixture, 2 litres of mixture added to 4kg cement.	(4)	(2)	(1)
Priming	Neat (direct from container)	4	2	1
Priming	1:1 (v/v) Easy Mix Prime & Bind/water mixture	16	8	0.5
Priming	1:2 (v/v) Easy Mix Prime & Bind/water mixture	24	12	0.33
Screed Admixture	1.8-2.1 litres of 1:1 (v/v) Easy Mix Prime & Bind/water mixture added to 20kg screed, 10mm screed layer thickness.	(1:1)	(1:1)	(1)



Contact Easy Mix Technical Services for information on using Easy Mix Speed Screed 24 over other surfaces not mentioned in this technical data sheet.

PACKAGING

Easy Mix Speed Screed 24 is available in 20kg paper bags.

CONSUMPTION**USAGE AND THICKNESS GUIDELINE**

Application Method	Minimum Thickness	Coverage per square metre
Bonded Screed	25mm	2.5 bags
Unbonded Screed	40mm	4 bags

Approximately 2kg per m² per mm of screed thickness. 20kg of Easy Mix Speed Screed 24 will cover approximately 1m² at a thickness of 10mm.

For guidance, the table below provides estimated coverage for Easy Mix Speed Screed 24 and Easy Mix Prime & Bind for various applications. Surface types and application variations may cause departures from these consumption estimates.

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Technical Properties		
Form:	Grey Powder	
Bulk Density:	1850 kg/m ³ (1.85 kg/L)	
Water Mix Ratio:	1.6 litres per 20kg Mixed Product	
Consistency:	Homogeneous Paste	
Fresh Wet Mix Density:	2180 kg/m ³ (2.18 kg/L)	
Coverage:	1m ² /bag per 10mm thickness	
Application Temperature:	5°C to 35°C	
Setting Time:	Initial Set – approx 40 minutes Final Set – approx 60 minutes	
Working Time:	20- 30 minutes	
Walkability:	4 hours	
Compressive Strength: (Mixed with water)	4 hours	6.5 MPa
	8 hours	10.3 MPa
	24 hours	21.1 MPa
	7 days	24.1 MPa
	28 days	36.5 MPa
Compressive Strength: (Mixed with Easy Mix Prime & Bind)	24 hours	20.7 MPa
	7 days	29.5 MPa
	28 days	35.6 MPa
Flexural Strength: (Mixed with water)	24 hours	3.8 MPa
	7 days	4.6 MPa
	28 days	4.9 MPa
Flexural Strength: (Mixed with Easy Mix Prime & Bind)	24 hours	5.4 MPa
	7 days	8.4 MPa
	28 days	9.6 MPa
Application Thickness:	Bonded Screed –	Min 25 mm Max 70 mm
	Un-bonded Screed –	Min 40 mm Max 70 mm
Time to installation:	Ceramic & Natural Stone – 4 hours Resilient & Textile Flooring – 24 hours Timber & Parquetry – 48 hours Waterproofing Membrane – 24 hours (ideally when Speed Screed 24 is < 2% residual moisture)	
Residual Moisture Content:	24 Hours – < 2%	
	28 Days – < 1.5%	

As for the background concrete substrate, we would recommend that the following guide be used as the basis for ensuring moisture levels are not too high. Concrete subfloors must be sufficiently cured, such that when tested in accordance with test method A3.1.2 “Relative humidity insitu probe test” per ASTM F2170 in AS1884:2021 shall exhibit a relative humidity not exceeding 75%.

Cementitious substrates, such as concrete, must not be subject to shrinkage after the installation of Easy Mix Speed Screed 24.

AS3958.1-2007 (Ceramic Tiles-Part 1: Guide to the installation of ceramic tiles) gives guidance on the types of concrete surface finish applicable to various tile fixing methods. It also provides guidance on the waiting period required for new concrete. Table 4.3 from AS3958.1 is shown below.

PRIMING

If placing Easy Mix Speed Screed 24 directly onto concrete floors, prime with Easy Mix Prime & Bind.

CONCRETE FLOOR PREPARATION

Substrate Preparation

Concrete floors must be structurally sound, clean and dry. Surface must be free from dust, dirt, wax, grease, asphalt, latex and gypsum compounds, adhesives, paint, curing and sealing compounds and other contaminants which may act as a bond breaker. Concrete must be free from laitance, efflorescence and not be subject to hydrostatic pressure.

Moisture levels in the background substrate are important within the framework of the total flooring system being installed. In the information below, detailed data is supplied in relation to moisture levels in the Easy Mix Speed Screed 24, prior to installation of the different floor coverings over it.

CONCRETE FLOOR PREPARATION

TABLE 4.3 ex AS3958.1-2007 (Ceramic Tiles-Part 1: Guide to the installation of ceramic tiles)

Fixing Method		Applicability of Finish				Minimum Drying time of Concrete	Maximum Variation in Plane of Concrete
Fixative	System	Screed	Wood Float or Broom	Power Float	Steel Trowel		
Mortar	In Situ Underlay	Yes	Yes	Yes	Yes	4 weeks	5mm in 3m
	Separating Layer	Yes	Yes	Yes	Yes	4 weeks	5mm in 3m
	Sand/Cement Mortar Bed	Yes	Yes	No	No	6 weeks	20mm in 3m
Adhesive	Thick Bed	Yes	Yes	Yes	No	6 weeks	10mm in 3m
	Thin Bed	Yes	Yes	Yes	No	6 weeks	5mm in 3m
	In Situ Underlay	Yes	Yes	Yes	No	4 weeks	5mm in 3m

Use of Easy Mix Speed Screed 24 & Easy Mix Prime & Bind on new concrete surfaces should be governed by the criteria shown in Table 4.3 from AS3958.1-2007.

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MIXING

Machine Mixing: Place the Easy Mix Speed Screed 24 into the mixer, then add according to desired consistency, 1.6 - 1.8 litres of clean water per 20kg bag of Easy Mix Speed Screed 24. Mix thoroughly for 3 - 5 minutes.

Drill Mixing: Place according to desired consistency, 1.6 - 1.8 litres of clean water into a clean container and slowly add 20kg of Easy Mix Speed Screed 24 while slowly mixing with a low-speed mixer. Mix thoroughly to a smooth, homogeneous consistency.

Hand Mixing: Place the Easy Mix Speed Screed 24 into a wheelbarrow or onto a clean solid surface, then add 1.8 litres of clean water per 20kg bag of Easy Mix Speed Screed 24. Mix with a shovel until a uniform consistency is achieved.

Mixing with Easy Mix Prime & Bind: Place the Easy Mix Speed Screed 24 into the mixer, then add 1.8 litres of Easy Mix Prime & Bind per 20kg bag of Easy Mix Speed Screed 24. Mix thoroughly for 3 - 5 minutes.

APPLICATION

Place the mixed product onto the area to be screeded and screed to the desired thickness and plane using an appropriate straight edge. Apply the desired surface finish using a wooden or plastic float.

Bonded Screeds: Apply a primer coat of Easy Mix Prime & Bind on to the substrate. Place the mixed Easy Mix Speed Screed 24 onto the bond coat while it is still wet. Apply the finish as described previously.

Note: Easy Mix Speed Screed 24 should be carefully applied at a minimum thickness of 25mm per application for bonded screeds, and 70mm maximum thickness.

Un-bonded Screeds: Apply the mixed Easy Mix Speed Screed 24 onto a polyethylene film, building paper, waterproofing membrane etc. and finish as described previously. The minimum bed thickness should be 40mm, and the maximum thickness should be 70mm.

For any applications where the screed may be subject to higher loads and point loads, mix Easy Mix Speed Screed 24 with Easy Mix Prime & Bind.

Discard any material that has exceeded the pot life or working time of the product.

INSTALLING CERAMIC TILES, RESILIENT FLOORS, TIMBER, AND TEXTILE COVERINGS

Installation of floor coverings should take place after the appropriate cure time – refer to the Technical Data for the relevant adhesive system. In determining when the laid Easy Mix Speed Screed 24 is suitable for the installation of different flooring materials, the following guidance is presented based on Australian Standards. Take particular note to the requirement for residual moisture levels in both the screed and background substrate.

TEXTILE FLOOR COVERINGS

Installation should be in accordance with AS2455.1:2007 Textile Floor Coverings – Installation and Practice (Covers products like carpets). It is important to ensure that Easy Mix Speed Screed 24 when tested in accordance with the hygrometer test per Appendix B2.2 in AS2455.1: 2007, shall exhibit a relative humidity not greater than 70%.

RESILIENT FLOOR COVERINGS

Installation should be in accordance with AS1884:2012 Floor Coverings Resilient Sheet and Tile – Installation Practices (Covers products like linoleum, vinyl). It is important that Easy Mix Speed Screed 24 when tested in accordance with test method A3.1.2 “Relative humidity insitu probe test” per ASTM F2170 in AS1884:2021 shall exhibit a relative humidity not exceeding 75%.

CERAMIC TILES

Installation should be in accordance with AS3958.1 : 2007 Ceramic Tiles Part1-Guide to the Installation of Ceramic Tiles. It is important to ensure that Easy Mix Speed Screed 24 when tested in accordance with test method B5 “Electrical Resistance Test” in AS3958.1: 2007 shall exhibit a moisture content of no greater than 5.5%.

TIMBER & PARQUETRY COVERINGS

If Easy Mix Speed Screed 24 is to be used under timber or parquetry, it is important that the instructions on the timber floor adhesive be followed in detail. Note that many timber floor adhesives require the application of a Moisture Vapour Barrier, prior to installation. This can take place after the screed and concrete slab beneath it have achieved the following level of dryness. As a guide, concrete subfloors must be sufficiently cured, such that when tested in accordance with test method A3.1.2 “Relative humidity insitu probe test” per ASTM F2170 in AS1884:2021 shall exhibit a relative humidity not exceeding 75%. Accordingly, after the application of Easy Mix Speed Screed 24, it must also meet the same requirements for dryness.

WATERPROOFING MEMBRANES

Easy Mix Speed Screed 24 is only suitable for application over and under water based and cementitious membranes. As a guide, application of Easy Mix Speed Screed 24 over a membrane should take place when the membrane has fully through dried (refer to manufacturer’s instructions). For application of a waterproofing membrane over Easy Mix Speed Screed 24, we recommend allowing cure for 24 hours, ideally, when the screed has reached < 2% moisture. Ambient temperatures can change this timeframe.

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MOVEMENT JOINTS

It is essential that movement joints are carried through from the background substrate, right through to the face of the tile covering. Refer to AS 3958.1 - 2007 for guidance on design and construction of movement joints.

TEMPERATURE CONSIDERATIONS

The interaction between cement and water is temperature sensitive. The set time is delayed at low temperatures and is accelerated at high temperatures. To avoid significant change in setting times, the recommended product, water, ambient and substrate temperature ranges are:

Product – keep out of direct heat or cold. Try and ensure product is between 15 – 25°C.

Water – try and ensure mix water is between 15 – 25°C.

Ambient – Do not apply at a temperature less than 5°C or above 35°C.

Substrate – Do not apply onto a surface which has a temperature less than 5°C or above 35°C.

CLEAN UP

Clean all tools and equipment with water before the screed dries. When hardened the product may require mechanical or chemical removal. Chemical removal is best done using a proprietary concrete cleaner (usually acid based) – follow safety instructions for the product.

OPEN TO TRAFFIC

Floors are ready to receive light foot traffic after approximately 3 Hours.

STORAGE

Stored in original, unopened packaging, in cool, dry conditions, Easy Mix Speed Screed 24 will keep for 6 - 12 months.

Storing in areas of high humidity or excess moisture may affect the contents and shorten shelf-life.

HEALTH AND SAFETY

During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment. If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting. For further information consult the Safety Data Sheet (SDS) and read the product label carefully before use. SDS documents are available by phoning 1800 077 744.

Please Note:- The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear. Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product