



PS RAPID 3min MORTAR

DESCRIPTION

PS Rapid 3min Mortar is a natural, additive free, quick-setting, rapid hardening, ready mixed mortar, specially designed for civil engineering applications. **PS Rapid 3min Mortar** is a general purpose rapid installation mortar to cement-in fixings to concrete, seal cracks and voids, and to stop the flow of water. When mixed with water, a non-shrink cement mortar is produced which develops a rapid gain in early strength and sets in three minutes. After the first fifteen minutes the mortar is strong enough (4N/mm²) to accept fixings. Strength continues to increase gradually and after one year reaches 45N/mm². **PS Rapid 3min Mortar** can also be used as a general purpose, rapid repair mortar and to cement-in types of fixings to concrete and other substrates. Ideal for rapid repair and installation work.

USES	BENEFITS
As a waterstop to plug and seal wet, weeping and flowing water through concrete and cementitious surfaces	Quick, simple and safe to use
Quick filling and scaling of tight cracks, fissures, pipe joints and seals	Fast set, very high early strength
Vertical and soffit fixings into concrete, engineering, brickwork, masonry and other materials	Stops running water instantly
Quick installation of hinges, supports, frames and windows	Waterproof, Non-shrink, non-bleeding
Rapid bedding in of street furniture, manhole rings and covers, frames, trains, kerbs, slabs, stones, blocks and bricks	Natural stone colour
To repair and protect marine concrete structures in the tidal zone	High long strength to cement, concrete, masonry, brick and steel
Stabilisation protection of banks, ramps, rock walls, tunnel coating and mine consolidation	Resistant to sea water, sulphates and aggressive chemicals
In floor screeds for dairies, cattle sheds, pigsties, etc.	Contains non chlorides, ferrous metal or other deleterious substances
	Allows quick finishing of building work such as road repairs, minimising traffic disruption



PRODUCT DATA SHEET

MIXING INSTRUCTIONS

PS Rapid 3min Mortar is mixed by hand using a trowel and small container. Small amounts of material are mixed at a time. Pour 1—ml of water into the container. Slowly sprinkle approximately 500g of **PS Rapid 3min Mortar** into the water while mixing, continue to add the powder until the required consistency is reached. Mix until homogeneous. The mortar is now ready for use. This type of mix is reserved for cases where extremely quick setting is required: approximately 1.5 – 3 minutes (for a large number of repairs a small mixer should be used). **PS Rapid 3min Mortar** can also be used for making concrete (add 1 part coarse aggregate) for work requiring large volumes, floor screeds, foundations, repairs, etc. A concrete mixer can be used for large quantities. A longer working life can be obtained – consult our Technical Service Department.

PREPARATION & APPLICATION

Ensure that good concreting practice is performed and maintained at every stage during the application process. Remove all contamination and weak material from the surface and produce a strong, sound substrate with a good mechanical key. Thoroughly wash and soak the substrate to remove any dust and debris from the surface to be treated. Remove any standing water prior to application.

PLACING

To use **PS Rapid 3min Mortar** as a fixing or repair material:

- 1) Chisel out any loose or friable material to a depth of approximately 50mm. Wash out the cutting thoroughly with clean water to remove loose material and soak the concrete.
- 2) Stem any flow of water by plugging the back of the cutting with **PS Rapid 3min Mortar**. Make up to full depth and finish to required standard.

YIELD

25kg bag of **PS Rapid 3min Mortar** requires 6.5 litres of water to provide a 'putty like' consistency. Allow 2 tonnes of dry material per cubic metre of work to be done. At 25mm thickness 1no 25kg bag will cover a quarter of a square metre.

CURING

Take care to cure **PS Rapid 3min Mortar** correctly, especially during drying conditions.

PS Primer Latex can be applied as a curing agent. Always protect freshly placed material from frost.

PS Rapid 3min Mortar's early setting can be delayed by adding ordinary Portland Cement. The amount of delay must be determined by site trial mixes. Equally, OPC concrete's and mortars can be accelerated by the addition of **PS Rapid 3min Mortar**, again on site trials will determine mix requirements. If in doubt consult our Technical Hotline (tel: 01954 780687). Do not remix **PS Rapid 3min Mortar** – strength and adhesion will be drastically reduced.



PRODUCT DATA SHEET

PACKING & SHELF LIFE

PS Rapid 3min Mortar is packed in 25kg moisture proof paper sacks and in 2kg and 5kg plastic bags. The compound has a shelf life of 1 year in bags that are unopened and undamaged. Store in a cool, dry environment.

HEALTH & SAFETY

PS Rapid 3min Mortar is non-toxic and safe to use. However, protective clothing, rubber gloves, goggles and a dust mask should be worn while mixing and applying the material. Product safety sheets are available on request.

QUALITY ASSURANCE

PS Rapid 3min Mortar is a Quality Assured product produced to ISO 9001: 2000.