

CONFIL MORTAR

General Purpose Polyester Mortar

Description

An extremely versatile two pack general purpose polyester mortar which exhibits a very fast set and rapid strength gain surpassing the average strength of concrete within 1 hour. Ideal for small general repairs where the rapid set allows the minimum of disruption.

Applications

- Repairs to damaged precast units.
- Repairs to spalled concrete roads, runways etc.
- Fixing or bedding of copings and kerbs etc.
- Bedding and raising of manhole frames.
- Jointing between precast units.
- Repairs to stair treads and arrises.

Advantages

- Quick curing, early high compressive and flexural strength.
- Economic - quantities mixed as needed - no waste.
- Supplied in polythene buckets which act as a mixing vessel.
- Excellent chemical and water resistance.
- Simple to use - no critical mixing ratios.
- Grey in colour to match concrete.

Technical Information

Yield:	471cc/kg	
Typical Density:	2125	
Flexural Strength:	27 N/mm ²	
Tensile Strength:	13 N/mm ²	
Shrinkage:	Linear:	0.7%
	Volume:	3.0%

Once Confil Mortar has fully cured no shrinkage will occur.

Typical Strength Gain of Confil Mortar

Time	Compressive Strength N/mm ²	
	10 °C	20 °C
2 hrs	--	60
4 hrs	64	69
1 day	80	82
2 days	83	84
3 days	88	94
7 days	95	102

Typical Usable Life of Confil Mortar

Temperature	Rapid Grade	Standard Grade
	Fast Set	Slow Set
10°C	30 mins	50 mins
15°C	22 mins	40 mins
20°C	18 mins	30 mins

Surface Preparation

All surfaces should be clean, dry, free from oil, grease, chemical contamination and all loose materials. Oil and grease should be removed using Desolve . Concrete surfaces should be free from laitance, this should be removed by either scarifying or etching with Chemclean. After using Chemclean, and after the reaction has ceased, wash the surface thoroughly with water and allow to dry. On smooth surfaces a stronger bond will result if the substrate is roughened to produce a mechanical 'key'. A stronger repair will result if the edges are cut straight with a chisel or similar tool to avoid feather edging the material.

Mixing

Remove the can of Confil Resin and the bags of hardener/ aggregate contained within the plastic mixing bucket. In the large pack there are five small bags of hardener/ aggregate and a resin measuring cup for use where smaller quantities are required to be mixed. Pour the required amount of resin into the mixing bucket and add the hardener/aggregate slowly with continuous mixing until a trowelable consistency is achieved. Large quantities should be mixed in a suitable mechanical mixer such as a Creteangle or Mixal. Care should be taken not to mix more than can be used within the setting time of the material.

Application Instructions

If formwork is used a suitable silicone or wax based release agent should be used to avoid the sticking of the mortar. The mixed Confil Mortar should be trowelled firmly into place to ensure good adhesion; on dense substrates the mix should be made more resin-rich to ensure good adhesion. A smooth surface can be obtained by keeping the float face clean and damp by wiping with a cloth dampened with Nuwash.

It is recommended that the maximum thickness of Confil Mortar in any one layer be 15 mm and maximum area in any one application be 0.25 m².

Leave a rough surface between layers to promote a mechanical 'key'.

Clean all tools and equipment after use with Nuwash.

Packaging

Confil Mortar is available in 5 kg (2.36 litre) and 25 kg (11.78 litre) units.

Storage

Confil Resin is flammable 31°C (88°F) and due precaution should be taken when handling and storing this material. Shelf life is approximately 6 months when stored correctly in sealed containers, however, at higher temperatures this period will be reduced. Store away from foodstuffs and out of the reach of children.

Health & Safety

Confined areas should be well ventilated and do not smoke or allow naked flames during use. Confil Mortar like similar products is capable of irritating unprotected sensitive skin, the use of gloves and a suitable barrier cream is therefore recommended.

Limitations

For use below 5°C consult our technical department.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA, United Kingdom.
TEL: +44 (0) 191 416 8360 FAX: +44 (0) 191 415 5966 W: www.nufins.com E: info@usluk.com

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