

PRODUCT DATA SHEET

Parex Aquatic Mortar accelerated

Anti-washout rapid setting mortar

PRODUCT DESCRIPTION

Parex Aquatic Mortar accelerated is blend of special Portland cements, high quality graded sands, and unique combinations of polymers and admixtures. The product contains no iron, high alumina cement, chloride or deleterious substances. Parex Aquatic Mortar accelerated is used when ambient temperatures are low, or when an early strength gain is required. The product is easily mixed with gauging water to produce a putty-like consistency for ease of application. The mixed material will not disperse, wash out or break up in water or underwater situations. The placed mortar develops rapid early strength even at low temperatures. The anti-washout properties enable effective plugging and sealing of leaks in running water situations.

USES

- Repair of tunnels, culverts, sewers and pipes.
- Repair of brick, masonry and concrete in wet conditions.
- Protection and repair of:
 - Marine structures.
 - Sea defences.
 - Harbours.
 - Jetties.
 - Ports.
 - Dams.
 - Docks and locks.
- Stop and seal the flow of water or grout in brickwork or concrete.

PRODUCT INFORMATION

Chemical Base	Cementitious powder
Packaging	25 kg bags
Shelf Life	6 months from date of manufacture

CHARACTERISTICS / ADVANTAGES

- Easy to use - just add water.
- Very rapid setting.
- Anti-washout properties.
- Suitable for application to Brick, Masonry and Concrete.
- High early strength gain.
- Consistency - good workable mortar.
- Chloride free.
- Suitable for plugging and sealing leaks in running water.
- Non-shrink.
- Suitable for use in relatively low temperatures.
- EuroClass A1 reaction to fire.

APPROVALS / STANDARDS

Parex Aquatic Mortar accelerated has been tested in accordance with the appropriate parts of EN 12390 and ASTM C827.

Storage Conditions	Store in original unopened, sealed and undamaged packaging in dry and cool conditions.
Appearance / Colour	Grey powder
Density	~2100 kg/m ³

TECHNICAL INFORMATION

Compressive Strength	60 minutes	~3 N/mm ²	(EN 12390)	
	90 minutes	~12 N/mm ²		
	120 minutes	~20 N/mm ²		
	24 hours	~27 N/mm ²		
	7 days	~44 N/mm ²		
	28 days	~60 N/mm ²		
	<i>Note: Above results obtained with a water content of 15% at 20°C.</i>			
	60 minutes	~1 N/mm ²		(EN 12390)
	90 minutes	~7 N/mm ²		
	120 minutes	~13 N/mm ²		
	24 hours	~21 N/mm ²		
	7 days	~40 N/mm ²		
	28 days	~55 N/mm ²		
	<i>Note: Above results obtained with water content of 18% at 20°C.</i>			

Reaction to Fire	EuroClass A1
-------------------------	--------------

APPLICATION INFORMATION

Mixing Ratio	3.75 - 4.5L (15 to 18%) of water for 25 kg of powder.		
Layer Thickness	5mm minimum 30mm maximum		
Consistency	15% water content forms a firm / stiff mortar. 18% water content achieves a good, thixotropic, workable mortar.		
Pot Life	Between 5 and 10 minutes, depending on water content.		
Initial set time	Water Content (%)	Litres / 25 kg Bag	Initial Set Time
	15	3.75	~10 minutes
	18	4.5	~14 minutes
Final set time	Water Content (%)	Litres / 25 kg Bag	Final Set Time
	15	3.75	~15 minutes
	18	4.5	~20 minutes

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Ensure all contact surfaces are clean, free of contamination and marine growth. In underwater locations, for cleaning, use a water jet. For surfaces situated in the tidal zone, or above the waterline, use hot compressed propane burning to remove contaminants, abrade the substrate and clean the surface.

MIXING

Add the required quantity of water to a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Suitable mixers include a slow speed high torque (1kW) drill with a Mortar Stirrer.

After all the powder has been added mix for a further 1 to 2 minutes. **Mixing by hand is NOT recommended.**

APPLICATION

Use a gloved hand to form a contact / scratch coat. Work and compact the mortar onto, and well into, any cracks or cavities and completely cover the substrate. The contact / scratch coat will reduce voids at the bondline and promote intimate contact between the repair material and the concrete. It will also prevent peeling and slumping on vertical and soffit substrates. On top of the contact / scratch coat, use a trowel or steel float to apply the mixed mortar and build up to the profile of the surrounding concrete. For ease of working and application of the mortar above the waterline, keep gloves and all implements wet. Use a handheld water sprayer to wet mortar surfaces and to produce a smooth finish.

CURING TREATMENT

Protect the fresh mortar immediately from premature drying for a minimum of 3 days using an appropriate curing method (e.g. curing compound, wet hessian, moist geotextile membrane, polythene sheet, etc.). Curing compounds shall not be used when they adversely affect subsequently applied products and systems..

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



Product Data Sheet
Parex Aquatic Mortar accelerated
July 2023, Version 01.01
020302040030000443

ParexAquaticMortaraccelerated-en-GB-(07-2023)-1-1.pdf