

Adomast EasiFlow Rapid Set

Technical Specifications

Rapid Setting Flowing Repair Concrete

Adomast EasiFlow Rapid Set Repair Concrete is a blend of low alkali Portland cements, micro-silica and other cementitious binders combined with high purity limestone aggregates and a system of compatible admixtures.

Adomast EasiFlow Rapid Set is a pre-blended, pourable, high strength, rapid setting, shrinkage compensated concrete.

USES: Adomast EasiFlow Rapid Set is suitable for the structural repair of concrete carriageways, runways, bridge decks and bedding in precast concretes and metal works. .

Advantages

- Adomast EasiFlow Rapid Set will allow return to service in 1.5-2.0 hours (20-25°C)
- Adomast EasiFlow Rapid Set is pourable—therefore easy to place (even in shuttering)
- Adomast EasiFlow Rapid Set is shrinkage compensated in both the plastic and hardened states
- Adomast EasiFlow Rapid Set has high compressive strength—as such it can be used for structural repairs
- Adomast EasiFlow Rapid Set has low permeability—prevents ingress of chlorides, acid gasses and water
- Adomast EasiFlow Rapid Set is a Class R4 structural Repair Concrete to BS EN 1504

Performance

TYPICAL PERFORMANCE

Compressive strength at 18-22°C N/mm²

1 hour	2 hours	
18.0	29.0	
1 day	7 days	28 days
37.0	45.0	57.0
WSR	0.14	
Initial Set	15-25 minutes (T°C dependant)	
Shrinkage	<0.001%	
Na₂ O Equivalent	<2kg/m²	
Maximum Thickness	200mm	
Minimum Thickness	15mm	
Air Content (BS 1881)	2% (10mins mixing)	
Yield (Litres/25kg)	13.0 L	
Yield (Tonne/m³)	1925 kg/m³ (77x25kbags)	



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EN 1504-3

Concrete repair product for structural repair CC
concrete

(based on polymer modified hydraulic cement)

Compressive strength:	class R4
Chloride ion content:	≤ 0,05%
Adhesive bond:	≥ 2.0 MPa
Carbonation resistance	Passes
Thermal compatibility part 4:	≥ 2.0 MPa
Elastic modulus:	27.4 Gpa
Capillary absorption	≤ 0.5 kg.m ² .h ^{-0.5}
Dangerous substances:	comply with 5.4
Reaction to fire:	Euroclass A1

Application

Instructions for Use

Ensure all receiving substrates are clean and dust free. Concrete substrates should be thoroughly soaked for several hours prior to the concrete being applied to reduce suction. Immediately prior to placing all excess water should be removed. Permeable concretes should be primed with Adomast Acrylic Primer as per the instructions on the technical data sheet.

When pouring Adomast EasiFlow Rapid Set Repair Concrete the void to be filled should be shuttered to a water tight standard. Continuous concrete flow is essential and the sequencing of mixes should be organised to ensure this. Pouring should always be from one side only to prevent air entrapment. Wooden shutters should be varnished and treated with a mould release agent to assist stripping after curing. Any other shuttering system should be treated to prevent adhesion of the material to the shutter.

Any concrete exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent, such as Safecure Super. Any concrete that is likely to be subject to low temperature during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS 8110 Pt. 1 Section 6.

Mixing Instructions

Adomast EasiFlow Rapid Set Repair Concrete should be mixed using water which would be used for mixing concrete.

Adomast EasiFlow Rapid Set repair Concrete should be mixed in a suitable container using either an electric (1kW) or pneumatic power tool. Larger amounts can be mixed in a forced action paddle mixer.

25kg of the concrete powder should be added carefully to 3.5 litres of water, progressively mixing until a pourable concrete is achieved. Small quantities can be mixed by hand, care being taken to accurately measure the water.

Once mixed, the material must not be re-worked.

Due to the speed of the set the material should be placed as quickly as possible

Packaging & Storage

Adomast EasiFlow Rapid Set Repair Concrete is available in nominal 25kg sacks.

Adomast EasiFlow Rapid Set Repair Concrete should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis

Keep sealed when not in use. Avoid contact with moisture.

Shelf life is minimum 3 months but storage in the correct temperature and humidity can increase shelf life to 6 months

Health and Safety

In common with other cementitious materials Adomast EasiFlow Repair Concrete is alkaline and therefore contact with skin and eyes should be avoided.

If contact with skin should occur wash affected area well. Should material enter eyes irrigate thoroughly with clean water and if discomfort continues seek medical advice without delay.

Refer to separate Adomast EasiFlow Repair Concrete Health and Safety sheet.

HEALTH & SAFETY: Users are advised to wear a face mask, goggles , gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland cement which contains Chromium VI which may produce an allergic reaction.

Clothing contaminated by wet cement should be removed immediately and washed before reuse.

Irritating to skin.

Risk of serious damage to eyes. In case of contact with eyes rinse immediately with water and seek medical advice.

Keep out of reach of children