Adoplug Technical Specifications

Wall Tie Fill and Sealing Compound

ADOPLUG is a rapid setting, high strength, polymer modified, fine cementitious powder designed specifically for plugging tie holes. When mixed with water it forms a cohesive, easy to apply, shrinkage compensated compound and cures to develop a strongly bonded watertight plug to form an effective seal.

Technical information:

Yield litre/25kg:	15.75 litres
1m³	requires 64 x 25kg bags = 1600kg
Compressive strength	>30N/mm² after 28 days (after 1 day is 6N/mm² and after 7 it will be around 16N/mm²).
Application thickness	5-40mm per single layer - subsequent layers can be added when the layer beneath has sufficiently set
Setting time	approx 30 mins (@20°C)
Class R2 EN 1504-3 Concrete Repair	

Application

Preparation of Hole The concrete surface to which the ADOPLUG will be in contact should be sound, free of dirt and any other contaminants and well dampened down to minimise suction. When filling holes formed by through ties plastic pipe remaining in the wall should either be removed or drilled back to approximately 50mm from the concrete face and then plugged with a tie stopper or similar to form a backing for compacting the ADOPLUG against.
A depth of 50mm is suitable for water heads of up to 3m. For pressures in excess of this the depth should be increased, typically by 50mm for each additional 2m until complete filling is achieved. Particular care should be taken to ensure a well keyed surface within the tie hole.

Mixing The ideal mix is of a stiff but cohesive & fully wetted consistency and this is achieved at approximately 5to 1 by weight of Adoplug to water, mixing the powder gradually into the water. Mix thoroughly with a suitable hand operated paddle for 2-3 minutes—this will allow the water reducer to start and plasticise the mix and give a suitable working consistency for a low water addition.

Application Using a trowel or similar, place a quantity of ADOPLUG into the dampened hole and compact well by means of a steel rod, repeating the operation until the hole is completely filled with well compacted ADOPLUG, then trowel to the required finish. Build up to desired depth in 5-40mm sections and allow to set before applying next section. This is to allow the Adoplug to fully set and maximise its adhesion & performance. Any retained water would be detrimental to the bonding adhesion & performance

ADOPLUG will set in around 30 minutes (at around 20°C) so only mix as much as can be placed and finished in 20 minutes or so.

Curing Due to moisture retention of the polymer no special curing procedure is generally necessary excepting in high ambient temperatures or windy conditions when it is advisable to take precaution to prevent rapid drying of the compound.

Coverage

2kg will fill approximately 1m² by 1mm deep.

Shelf Life

Shelf life 6 months for sacks. Store in dry conditions and keep container sealed when not in use.

Specification

ADOPLUG is supplied by Adomast Manufacturing Ltd and shall be applied strictly in accordance with the manufacturer's instructions. For specific advice regarding any aspect of this product, please consult our Technical Department

Health and Safety

Prolonged physical contact should be avoided and personal and environmental hygiene encouraged. Where contact with skin occurs, the material should be removed with soap and water. If powder affects the eyes, they should be bathed immediately with copious quantities of clean water and if discomfort persists, medical attention should be sought without delay.

See Safety Data Sheet for further information.

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