

Acofill M50

Non-Shrink Mortar

Product description

Acofill M50 is the cement-based non-shrink mortar which has self-flowing property, early intensity development and increased final intensity.

Acofill M50 is specially manufactured for anchoring, positioning, holding, installing and repairing concrete in construction works.

Application

- Bolt positioning
- Anchoring precast structural column base
- Anchoring mechanical equipment to the foundation
- Anchoring bridge bearings and beams
- Anchoring machine base, rail base, holding pipes through the floor
- Fill joints, joints, gaps, voids, and wall cavities.

Advantages

- Mix dry mortar with water according to appropriate mixing ratio when using
- Viscosity can be adjusted
- Good flow, can be pumped by pump
- No shrinkage when curing
- No water separation
- Resistant to impact and vibration
- Non-toxic
- High adhesion strength
- High compressive strength
- Can add clean crushed stone when constructing.

Technical specification

Appearance	Dry mortar
Color	Grey
Construction time after mixing with water	No over 30 minutes
Expiry date	09 months
Packaging	25 kgs per bag
Storage	Store in dry, cool place with roof and avoid moisture



Health and environment protection

- The product is non-toxic when transported
- Acofill M50 is a cement-based product, so it is alkaline and can cause dust when mixed. Gloves, mask and protective equipment must be worn when applying
- Avoid splashing into eyes and contact with skin:
 - If splashing into eyes: rinse eyes with clean water several times; apply eye drops and seek medical advice
 - If contact with skin: promptly clean the exposed area with clean water
- Keep out of reach of children
- Do not dispose of into water sources, comply with regulations on hazardous waste disposal.

Using instruction

Surface preparation

- The surface must be clean; free of grease, concrete debris and other impurities
- Steel surface must be cleaned of rust and grease
- Absorbent surfaces must be saturated with water but must not allow standing water.

Mixing

- Mortar and water must be measured separately with appropriate ratio for each purpose. Slowly pour mortar into water, simultaneously with stirring, mix by machine at speed 300 - 6,500 rpm.
- If adding crushed stone, the stone must be clean and the amount of stone added must be calculated to achieve the desired grade.

Construction

- Before construction, the mortar must be thoroughly mixed and all air that has entered the mortar during mixing must be expelled.
- The mortar must be applied as quickly as possible to achieve high efficiency, while the flow of the mortar must be kept continuous by maintaining a suitable pressure column (when the flow of the mortar is interrupted, air will enter the mortar mass);
- The formwork must be firmly closed and watertight..

Curing

- The mortar surface must be kept moist (e.g. covered with wet burlap) to avoid premature dehydration of the mortar mass.
- The curing period is at least 07 days.

Cleaning tools

- Tools must be cleaned with water immediately after use
- Dried material can only be cleaned with a grinder.

Physical parameter

Evaluation criteria	Standard	Value	Note
Ratio of Water : Dry mortar	ASTM C230-08	15:100 (15%)	Can be adjusted from 13% to 16% during construction
Fluidity	ASTM C230-08	> 150 mm	
Water separation	ASTM C940-08	None	
Time to start curing	ASTM C940-08	≥ 0,2 %	
Time to end curing	ASTM C940-08	≥ 3 hrs	
Expansion (after 24 hours)	ASTM C403-09	≤ 8 t hrs	
Compressive strength <ul style="list-style-type: none">• 1 day• 3 days• 7 days• 28 days	ASTM C349-08	> 20 MPa > 30 MPa > 40 MPa > 50 MPa	

For any information related to the product, please contact adchem's sales or the technical department.



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