

Product Description

Akona® Non Shrink Grout is a pourable, non-metallic, portland cement based material to be used for grouting steel columns, bearing plates, precast concrete and anchors. Grout compensates for an uneven foundation, distributes weight of unit, and prevents shifting after setting and leveling unit. The material is made of aggregates, portland cement and other additives to create an interior or exterior grout with non shrinking characteristics.

Specifications

- ASTM C1107
- Corps of Engineers Spec. CRD-C 621

When/Where to Use

- Interior / exterior
- To fill holes
- Base plate grouting
- Anchoring
- Pre-cast wall panels
- Bridge seats

Advantages

- Non shrink characteristics
- High strength
- Pre-blended....just add water and mix
- Capable of handling high load transfers

Typical Yield

This product will yield 0.45 cu ft (12.7 L) at a flowable consistency per 50 lb (22.7) bag.

Packaging

50 lb (22.7 kg) bags

KEEP OUT OF REACH OF CHILDREN!

Helpful Items:



Gloves



Safety Glasses



Water



Mixer

Surface Preparation

Surfaces must be clean and free of chemical deposits, dirt, form oils, efflorescence, grease, oil, paint, etc. Do not apply at temperatures below 40° F or if temperature is expected to fall below 40° F within 24 hours. Presoak area to be grouted and remove excess water just prior to application.

Mixing

Use clean potable water to mix Akona® Non Shrink Grout. For best results, use a mechanical mixer with rotating blades. Always mix entire contents of bag. Add approximately ¾ of the expected mix water into the mixer, add the non shrink grout mix, then add additional water in small increments until desired consistency is achieved. Mix for no longer than 5 minutes. Water requirements may vary due to the temperature, mixing method and desired consistency. Do not mix more than can be placed in a 30 minute time frame.

Application

After cleaning and pre wetting the surface, place grout in a manner to avoid air entrapment. To avoid segregation, be careful not to overwork grout. Create vent holes where necessary. Forms should be sealed to prevent water or grout loss. Whenever possible, bolt holes should be grouted first. Placement and consolidation should be continuous for any one section of the grout. Excess grout may be removed after the initial set. Akona® Non Shrink Grout should not be re-tempered. Shut down any equipment in the vicinity that will cause vibration of the grout for at least 24 hours.

Warning

This product contains Portland cement. Contact with cement, freshly mixed concrete, or mortar can cause severe burns. The cementitious materials mixed onsite are alkaline in nature and on contact with water may irritate the eyes and skin. If contact with eyes occurs, flood eyes repeatedly with clean water and see a physician immediately. Do not rub eyes.



Wash hands thoroughly after handling or before eating. Do not take internally. This product may contain silica. Inhaled silica dust may cause respiratory or other health problems.

Approximate Water per 50 lb. Bag		
Plastic (trowel)	7 ½ Pints	
Flowable (pump)	8 ½ Pints	
Consistency of Flow		
Plastic (trowel)	101%	
Flowable (pump)	129%	
Compressive Strength (ASTM C109)		
Age	Plastic	Flowable
1 day	1,940	1,450
3 day	3,300	2,790
7 day	4,680	4,280
28 day	6,770	5,580
Height Change Expansion % (ASTM C1090)		
Age	Plastic	Flowable
1 day	+0.05%	+0.03%
3 day	+0.15%	+0.13%
14 day	+0.13%	+0.11%
28 day	+0.12%	+0.10%

