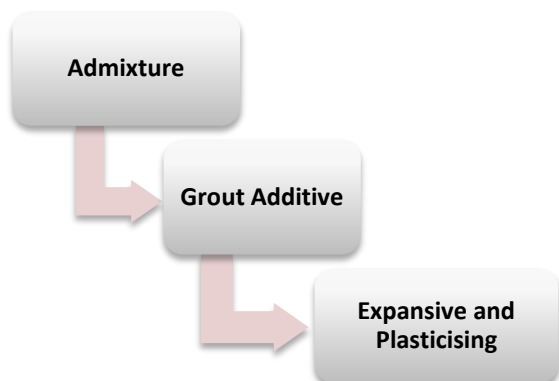


## FAMILY TREE



## PRODUCT DESCRIPTION

Apollo Add GA2 is an expansive and plasticising admixture for cementitious grout where a low water to cement ratio and positive expansion are required.

## FIELD OF APPLICATION:

Apollo Add GA2 grout admixture that ideally designed produce for the following application such as:

- Bed plate grouting.
- Grouting tunnel lining.
- Non-shrink infilling grouts.
- Post tensioned cables.

## PROPERTIES

- Non-Shrink: Hydrogen free expansion system compensates for plastic shrinkage and settlement in cementitious grouts.
- High Flow: Excellent grout fluidity at reduced water to cement ratio, for ease of placement or injection.
- Durability: Low water to cement ratio ensures low permeability and long term performance.
- Iron Free.
- Chloride free.

## MIXING

Ratio

	Apollo Add GA2	OPC	Sand	Water	Yield
:	227g	50kg	-	20±2	36litter
:	227g	50kg	50kg	22±2	56litter

Note: For grout, mortar or concrete mixes with an aggregate cement ratio more than 1, use 2 x 227 g units of Apollo Add GA2 per 50 kg of cement.

Apollo Add GA2 is compatible with all types of Portland cement.

Apollo Add GA2 Compatible with all types of cement.

## APPLICATION

Process

- : Areas to be grouted should be clean, sound and must be pre-wetted with clean water. The mixed grout should be placed directly after mixing. Working time will be within 30 minutes and remixing will be needed directly before the application to get the needed flow and expansion. Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

To ensure proper mixing, a mechanically powered mixer or drill fixed with suitable paddle should be used for quantities up to 50 kg. High shear vane mixer is required when mixing large quantities.

## PACKING

<b>Standard Package</b>	: Apollo Add GA2 is available in 0.227 and 5 kg bags.
<b>Custom Package</b>	: Special packages can be arranged for large requirements
<b>How to Order</b>	: Specify the Product Name followed with a hyphen and package size

## STORAGE CONDITION

<b>Shelf Life</b>	: Shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C in original unopened bags.
<b>Temperature</b>	: 5°C and 35°C.
<b>Points of Attention</b>	: Store in shaded area and properly sealed in its original packing.

## TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
<b>Standard</b>	ASTM	
<b>Testing Conditions</b>	Tests were carried out in Apollo R&D laboratory @ 25°C	
<b>Component</b>		Single component
<b>Form</b>		Powder
<b>Colour</b>		Grey
<b>Expansion</b>	ASTM C827/C827M-10	(3-9)% (baed on Na2O content Of cement is < 0.39%)
<b>Flow characteristics</b>	ASTM C939-87 within 30 min from mixing. Re-mixing is needed to keep the needed flow	< 32 sec
<b>Working Time</b>		30 min

## ATTENTION

<b>PPE</b>	: Apollo Add GA2 is alkaline and should not come into contact with eyes and skin. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.
<b>Hazardous Classification</b>	: Hazardous transportation.
<b>Fire</b>	: Non-flammable.

## APOLLO AT THE GLANCE

Apollo is confident with the technical solutions and high quality end products served to the customers.

Apollo invites you to explore other services and products:

• R&D and manufacturing custom solutions	• Adhesives	• Bonding Agents Systems
• Building Finishing Systems	• Concrete Admixture	• Concrete Repair Systems
• Flooring Systems	• Grouts & Anchoring Systems	• Painting & Putty Systems
• Protective Coatings	• Sealant & Jointing Solutions	• Structural Strengthening Solutions
• Surface Treatment Solutions	• Tile Adhesive & Grouting Solutions	• Waterproofing Systems