



## PRODUCT DATASHEET

# APT NS GROUT

Pumpable Multi-Purpose Non-Shrinkage Cementitious Grout

### DESCRIPTION

APT NS Grout is a non-shrink, self-leveling, pre-mixed cementitious grouting mortar with extended working time to suit local ambient temperatures.

### WHERE TO USE

Recommended for filling of voids and cavities in anchoring and concrete repair applications and bearing pads.

### SOME APPLICATIONS EXAMPLE

- Repair of concrete structure by form and pour or pressure grouting methods.
- Anchoring of columns and posts.
- Filling of rigid joints between elements in concrete and precast concrete structures.
- Grouting of machine baseplates and bridge bearings.

### RECOMMENDATIONS

- Do not add cement or additives to APT NS Grout.
- Do not add water when the mix begins to set.
- Do not apply APT NS Grout at temperatures below +5°C.

### TECHNICAL CHARACTERISTICS

APT NS Grout is a preblended powdered grout composed of high strength cement. When mixed with water, APT NS Grout is transformed into a highly fluid grout with good pumping properties that can fill narrow, intricate spaces without segregation.

- Good flowability
- Excellent impermeability to water
- Excellent adhesion to steel and concrete
- Excellent resistance to dynamic mechanical stress
- Good dimensional stability
- High strength, adjustable consistency
- No bleeding
- Non toxic, non corrosive
- Ready and easy to use
- Impact resistant



## PREPARING THE GROUT

Pour up to 80% of the required water (see APPLICATION DATA) into a clean container and slowly add **APT NS Grout** while mixing continuously.

Add the remaining water as necessary to achieve the desired mix. Mix for 1-2 minutes, making sure to scrape free any powder left sticking to the sides of the container. Remix for another 2-3 minutes until a fluid homogeneous paste is obtained.

According to the quantities to be prepared, a grout mixer or a mechanical mixer can be used - paying careful attention to avoid the formation of air bubbles.

Do not mix by hand. After mixing, stir gently with a spatula to remove entrapped air.

## APPLICATION

In general, pour or pump **APT NS Grout** from one side only in a continuous flow to avoid the formation of voids and to facilitate the discharge of entrapped air.

- **For formwork repairs**, it is necessary to make breather holes for air discharge. The formwork must be water-tight and firmly supported in place.
- **For large area applications**, for example in machine base grouting, make sure enough material is prepared for grout placement in an uninterrupted operation. It is not necessary to vibrate the grout mechanically; to facilitate the filling of spaces that are particularly difficult, use a wooden stick, steel bar or steel chain as appropriate.

## PRODUCT INFORMATION

<b>Packaging</b>	25 kg/bag
<b>Shelf Life</b>	Unopened packaging for 12 months
<b>Storage</b>	Keep in unopened, undamaged original packaging and protected from direct sunshine in dry condition
<b>Consistency</b>	Powder
<b>Color</b>	Grey
<b>Dry Solid Content (%)</b>	100
<b>Chloride Ion Content (%)</b>	absent



## APPLICATION DATA

Color of the Mix	Grey
Mixing Ratio, Water + 25 kg Bag of <b>APT NS Grout</b> :	3.5 to 4.5 Ltr
Temperature Rate (°C)	+10 to +40
Consistency	Powder
Color	Grey
Max: Diam. of Aggregate (mm)	
Dry Solid Content (%)	100
Chloride Ion Content (%)	absent
Pot Life (min)	60

## COMPRESSIVE STRENGTH: (16% OF WATER)

1 Day	30 Mpa
7 Day	61 MPa
28 Day	68 Mpa



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