

## TECHNICAL DATASHEET

# ASCOGROUT 50

Versatile And High Early Strength  
Non-Shrink Cementitious Grout



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## PRODUCT INTRODUCTION

AscogROUT 50 is specially engineered, cement based, non-ferrous, non-shrink gun grade grout. This economical and high performance cementitious grout offers the advantage of low water requirement and medium to high compressive strength. AscogROUT 50 is supplied in ready-to-use dry powder content which will require only water addition for application at site.

## KEY FEATURES

1. Non-shrink.
2. Provides placement versatility—trowel, pour, pump.
3. High early strength.
4. Medium to high strength.
5. Chloride free.
6. Non-ferrous - no staining.
7. For external & internal use.
8. Free flow ensures the high level of contact with bearing area.

## RECOMMENDED APPLICATIONS

1. Tie rods hole.
2. Filling gaps in RCC.
3. Pre-cast concrete.
4. Bearing plates.
5. Anchoring applications.

## TECHNICAL PROPERTIES

Appearance	Non-metallic, Free flowing grey powder
Initial setting time	2-3 hours
Water demand	Flowable: 16 ± 1 %
	Pourable: 18 ± 1 %
Fresh wet density	2200 ± 100 Kg/m <sup>3</sup>
Pot life	50 ± 10 minutes
Workability	25 ± 5 minutes
Layer thickness	20 - 80mm
Water curing	7 Days
Compressive strength	1 Day: ≥ 12 N/mm <sup>2</sup>
	7 Day: ≥ 35 N/mm <sup>2</sup>
	28 Day: ≥ 50 N/mm <sup>2</sup>
Pull out bond strength to steel	≥ 20 N/mm <sup>2</sup> @ 28 Days
E-modulus	≥ 20 N/mm <sup>2</sup> @ 28 Days

### Compressive strength (BS 1881 - Part 116: 1983) N/mm<sup>2</sup>

Days	Flowable (0.18)	Pourable (0.16)
1	10	12
7	35	40
8	46	50

### Compressive strength with aggregate (IS:516-1959) at W/P- (0.18)- N/mm<sup>2</sup>

Days	50% (Aggregate)	100% (Aggregate)
1	12	16
7	38	44
28	50	52

## Compressive strength with aggregate (IS:516-1959) at W/P- (0.18)- N/mm<sup>2</sup>

Days	Flowable (0.18)
1	2.0
7	5
28	7.5

Tensile Strength (W/P – 0.18)	2.5 N/mm <sup>2</sup> @ 28 days
Pullout bond strength (W/P - 0.18)	12 N/ mm <sup>2</sup> @ 7 days 16 N/ mm <sup>2</sup> @ 28 days
E-modulus	24 N/mm <sup>2</sup>

## APPLICATION METHODS:

### 1. Surface Preparation

Substrate should be clean and free from loose particles, coatings, dirt, mould, oil, etc. Substrate should be sound, rough and dampen to ensure a good bond. Before placing grout, surface should be saturated for four hours and preferably for twenty-four hours. Remove all excess water before application. Bolts, base plates and equipment should be secure and rigid before placement of grout.

### 2. Placing

Place it quickly. Be sure grout fills all the spaces and remains in contact with plate. Minimum 1" (25mm) vertical clearance should be maintained for base plate grouting application. Thin vertical clearance may require another type of grout.

### 3. For Deep Applications

Pre-washed and graded, 3/8" (1 cm) aggregate

should be used in application, that must be thicker than 3" (75mm) as follows:

- i. 3"-5" (75 – 125 mm): Add 25% of 3/8" (1 cm) aggregate per 30 kg bag of grout.
- ii. 5" (125 mm) and over: Add 50% of 3/8" (1 cm) aggregate per 30 kg bag of grout.

### 4. Mixing

Small quantity of grout can be hand mixed in a concrete mixing pan until it gets lump free. For large quantity, mix using a drill and paddle or suitable mechanical grout mixer for 5 minutes. Always add water to mixer first, and then slowly add powder. Use water to get desired placement consistency. Mix in two steps: Add 4.5 Liter water, add ASCOGROUT 50 GG, after partial mixing add the remaining water for desired consistency. Thoroughly mix it for an additional 2 to 3 minutes.

## 5. Curing

It is important to prevent moisture loss before product setting. Cure the product thoroughly after it has set in wet condition and covered for at least 7 days or apply a curing compound.

## 4. Clean-up

Wash all tools and equipment in warm soapy water immediately after use.

## 7. Packaging

AscogROUT 50 is available in 30Kg and 50Kg sealed bag.

## 8. Shelf Life

6 months from the date of production if stored in original, sealed packaging and in places protected from moisture, sun exposure and frost.

### DISCLAIMER:

*While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at [www.ascolite.in](http://www.ascolite.in). Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.*