

TECHNICAL DATASHEET

ASCOGROUT 50 GG

Versatile & High Early Strength Non-Shrink Gun
Grade Cementitious Grout



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PRODUCT INTRODUCTION

ASCOGROUT 50 GG 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 GG should be specified for general purpose construction site applications where the major emphasis is on ease of application. ASCOGROUT 50 GG is supplied ready-to-use as a dry powdered product requiring only the addition of water to be used for a wide range of applications.

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	Free flowing grey powder
Max. Aggregate Size	600 micron
Water : Powder	Gunnable: 23 ± 2 %
Initial Setting Time	4-5 Hours
Final Setting Time	5 - 7 Hours
Fresh Wet Density	1900 ± 100 Kg/m ³
Flow on Table	180 ± 20 mm @ 0.25 W/P Ratio
Compressive Strength (BS 1881 & IS 4031 part 6)	> 7 N/mm ² (1 Day); > 18 N/mm ² (7 Days); > 50 N/mm ² (28 Days)
Pullout Bond Strength	> 5.5 N/mm ² @ 28 Days (IS 2770)
Flexural Strength	> 5.0 N/mm ² @ 28 Days (ASTM C 438)
Expansion @ 28 Days	Nil (ASTM C 940)
Bleeding	Nil
Layer Thickness (Single Pour)	Minimum 1/2" (12.7mm) Maximum 3" (75mm)

NB: Above mentioned all test results are obtained at 27±2 °C and 50% R.H. at ideal laboratory conditions

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. Application Method

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 5.4 Liter water, add Ascogrout 50 GG, after partial mixing add the remaining water for desired consistency. Mix it for an additional 2 to 3 minutes.

Recommended aggregates should be up to 20mm along with Ascogrout 50 GG if required.

Placing: Place it quickly. Ensure that the grout fills all spaces of tie rod holes through nozzle or gun.

Avoid its application below 5°C or above 50°C.

3. Curing

ASCOGROUT 50 GG is self curing and it does not need any water curing.

4. Clean-up

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

7. Packaging

ASCOGROUT 50 GG is available in 20Kg, 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. 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.