

TECHNICAL DATASHEET

ASCOGROUT 65

Versatile And High Early Strength Non-Shrink Cementitious Grout



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PRODUCT INTRODUCTION

ASCOGROUT 65 is a specially designed free flow, non-shrink and cementitious grout to maintain its strengths at various consistencies from Flowable to pourable. ASCOGROUT 65 produces a low strength, excellent substrate adhesion and durability. The low water demand ensures medium early strength. Specially designed grout for application in RCC, Pre-cast, etc.

KEY FEATURES

1. Non-shrink
2. Good flexural strength & vibration resistance
3. For external & internal use
4. Excellent adhesion with many substrates
5. Single component and needs only mixing with water
6. Free flow ensures the high level of contact with bearing area

RECOMMENDED APPLICATIONS

1. Heavy equipment
2. Filling gaps in RCC
3. Pre-cast concrete
4. Bearing plates
5. Steel columns
6. Anchoring applications

TECHNICAL PROPERTIES

Appearance	Non-Metallic, Free Flowing Grey Powder
Initial Setting Time	2-3 hours
Final Setting Time	5-7 hours
Fresh wet density	2200 ± 100 Kg/m ³
Pullout bond strength to steel	≥ 20 N/ mm ² @ 28 days
Time for Expansion	Start - 20 minutes
	Finish - 120 minutes
Expansion under unrestrained conditions	Upto 2 %
Modulus Elasticity	≥ 28 N/mm ² (ASTM C 469)
Chloride Ions	≤ 0.05 %
Carbonation Resistance	Passed
Water : Powder	Flowable: 16 ± 1 %
	Pourable: 18 ± 1 %
Flow on Table	300 ± 20 mm @ 18% W/P Ratio
Pot Life	50 ± 10 Minutes
Workability	25 ± 5 Minutes
Layer Thickness (Single Pour)	20 - 80 mm
Water Curing	7 Days
Compressive Strength (ASTM C 109, IS 4031- part 6) Cured in water tank	1 Day : 14 N/mm ²
	7 Days : 45 N/mm ²
	28 Days : 65 N/mm ²

Compressive Strength (ASTM C 109, IS 4031 part 06, BS 1881 - Part 116: 1983)

DAYS	FLOWABLE (0.18)	POURABLE (0.16)
1	24 N/mm ²	27 N/mm ²
7	55 N/mm ²	65 N/mm ²
8	65 N/mm ²	75 N/mm ²

Compressive Strength with aggregate (IS 4031 part 06) at W/P - (0.18)

DAYS	50% (Aggregate)	100% (Aggregate)
1	28 N/mm ²	31 N/mm ²
7	58 N/mm ²	68 N/mm ²
28	70 N/mm ²	80 N/mm ²

Flexural Strength (BS 4551—1998)

DAYS	FLOWABLE (0.18)
1	2.5 N/mm ²
7	7.0 N/mm ²
28	10.0 N/mm ²

YIELD:

The quantity of clean water required to be added to a 20 kg bag to achieve the desired consistency is given as 3.6 Liter in Flowable (W/P 0.18) and 3.2 Liter in Pourable (W/P 0.16)

APPLICATION METHODS:

1. Surface Preparation

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

2. Mixing

Small quantities of grout may be hand mixed in a concrete mixing pan until lump free. For large quantities and continuous pours, mix using a drill & paddle or suitable mechanical grout mixer for a minimum of 5 minutes. Start with minimum water requirements. Always add water to mixer first, and then slowly add powder. Use only the amount of water required for the desired placement consistency. Mix in two steps: Add water as per required consistency, add grout, after partial mixing add the remaining water for desired consistency. Thoroughly mix total quantity for an additional 2 to 3 minutes. Do not mix more than can be placed in 30 minutes. Test data and recommended water amounts are based on laboratory conditions.

3. Placing

Place continuously and quickly. Be sure grout fills spaces and remains in contact with plate. A minimum of 1" (25 mm) vertical clearance should be maintained for base plate grouting applications. Thinner vertical clearances may require the use of another type of grout.

For Deep application: Pre-washed and graded 3/8" (1 cm) aggregate must be used in applications thicker than 3" (75 mm) as follows:

- i. 3"-5" (75 – 125 mm): Add 25% of 3/8" (1 cm) aggregate per 20 kg bag of ASCOGROUT 65.
- ii. 5" (125 mm) and over: Add 50% of 3/8" (1 cm) aggregate per 20 kg bag of ASCOGROUT 65.

4. Curing

It is a very important to prevent the early plastic state moisture loss prior to the product setting. Cure the product thoroughly after it has set by keeping it wet and covered for at least 7 days or apply a curing compound.

5. Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use ASCOGROUT 65 for storage and application
- ii. If come in contact with eyes, immediately wash eyes with plenty of water and seek medical advice.

Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use.

(Material Safety Data Sheets can be availed through the company's representative or from our ASCOLITE's website)

5. Packaging

Available in 30 Kg & 50 Kg sealed bag.

6. Shelf Life

6 months from the date of production if stored in original, unopened packaging & 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.