

TECHNICAL DATA SHEET

ASCOGROUT PR

Unsaturated Polyester Resin Based
Fast Setting Anchor Grout

PRODUCT INTRODUCTION

ASCOGROUT PR is a two component, thixotropic polyester resin based anchoring grout. It is supplied as a premeasured two part resin grout. It is formulated using advanced unsaturated polyester resin technology providing exceptional bonding strength & rapid setting properties. After hardening, the grout has consistent high mechanical properties. This anchoring grout is suitable to fill the gap between 5-25 mm with maximum depth up to 700 to 750 mm.

INDEX

KEY FEATURES	02
RECOMMENDED APPLICATIONS	02
TECHNICAL PROPERTIES	02
APPLICATION METHODS	03
STORAGE & SHELF LIFE	04
SAFETY	04
PRECAUTIONS	04
PACKAGING	04

KEY FEATURES

1. Rapid Strength Gaining
2. Rapid setting
3. Vibration resistant
4. Corrosion Resistant
5. Resistant to thermal expansion
6. Suitable for under water grouting
7. High chemical resistance
8. Cost Effective

RECOMMENDED APPLICATIONS

1. Foundation bolts & all types of base plates
2. Reinforcement start up bars
3. Dowel bars
4. Safety Fences & barriers
5. Brick work, Masonry
6. Balustrades
7. Reinforcement dowelling abutments

TECHNICAL PROPERTIES BS 6319 PART 2, BS 5080 , BS 6319 PART 3, ISO 868, ASTM 7234

Chemical Base	Unsaturated Polyester resin
Appearance	Part A : Straw Liquid Resin Part B : Grey Powder
Mixing Ratio	1 : 3 (Resin : Hardener)
Mixed Density	1.95 ± 0.02 g/cc
Compressive Strength (BS 6319 PART 2)	≥ 20 N/mm ² (3 hours) ≥ 40 N/mm ² (1 Day) ≥ 70 N/mm ² (7 Days)
Pot Life	Initial 8 –9 minutes@ 27±2 °C Final 13-15 minutes @ 27±2 °C
Shore D Hardness , 7 Days	85 ± 2 D
Shear Strength, 7 Days	32 ± 2 N/mm ²
Tensile Strength , 7 Days	18 ± 2 N/mm ²
Flexural Strength, 7 Days	32 ± 2 N/mm ²
Pull off Adhesion	≥ 1 N/mm ² (Concrete)

APPLICATION METHODS:

1. Hole Preparation

Optimum performance of **ASCOGROUT PR** requires dust free holes. Use of rotary percussive drills with air or water flushing is recommended.

Diamond drilled holes should be under -reamed.

2. Bar Preparation

Bar Should be free from oil and grease and all flaky rust should be removed.

3. Depth of Installation

$$\text{Minimum hole} = 0.6Y P(\text{Bd1})^2 = 1.015 Y(\text{Bd1})^2$$

$$\text{Depth (mm)} = \frac{SPd^2}{4 Sd^2}$$

Where Y is characteristic yield strength of steel (460 N/mm²)

S is permitted shear stress in concrete (N/mm²)

Bd1 is bar diameter (mm)

Hd1 is hole diameter (mm)

Characteristics strength of concrete	P for type I bar
M20	1.8
M25	2.0
M30	2.2
>M40	2.5

3. Mixing

Both Part A & Part B Components should be thoroughly mixed . A complete pack of Part A & Part B mixing can be carried out manually or mechanically . Part mixing should be avoided. When a smooth , even consistency is achieved the grout is ready for anchoring.

4. Placing : The Mixed grout should be poured steadily into the prepared holes . The anchor bar is then pressed into the hole to the required depth . Slight agitation of the bar will assist in achieving a complete bond . The bar should then left undisturbed in the required position until the resin is set .

5. Cleaning

Immediately after application of **ASCOGROUT PR** ,Clean the tools, equipment and the mixing container using normal paint thinner

STORAGE & SHELF LIFE

ASCOGROUT PR has a shelf life of 6 Months if kept in a dry, clean stored below 30 °C in the original unopened containers. The product should be protected from direct sunlight & Sources of heat.

SAFETY

During mixing and application the following precautions should be observed. Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth & unprotected skin. In such cases, if contact with the resin occurs, the skin should be washed immediately with soap & water-not solvent.

PACKAGING

1 kg

Part A 250 g

Part B 750 g

YIELD

1 **KG** : 0.5 **L** : 0.0005 m³

PRECAUTIONS

Fire resistance and creep

At operating temperature above 40 °C, the creep of **ASCOGROUT PR** grout resin under load may become significant. Resin anchors should not be used where structural load bearing performance has to be maintained in anchor subjected to fire conditions.

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.