

MONNELI ANCHORTITE

Fast Setting Anchoring Grout

Product Description

A high strength, corrosion resistant, fast curing polyester resin anchoring grout. It consists of two components, pre-packed polyester resin and blended aggregates with an organic peroxide catalyst. The resin/aggregate mix has been designed to give excellent workability during application with high tensile strength when set.

Uses

ANCHORTITE for horizontal application where the hole diameter exceeds the bar diameter by 4 to 25 mm. It can be used for the permanent installation of the following:

- Reinforcing dowels
- Starter bars
- Handrails and safety fences
- Wall ties
- Railway tracks
- Foundation bolts
- Ground anchors in concretes, concrete blocks, brickworks, AAC blocks and stones

Advantages

- Economical & easy to apply.
- Fast curing, early gain of high strength.
- Excellent dynamic vibration resistance.
- Corrosion resistant.
- Resistant to attack by many chemicals
- Resistant to immersion underwater.

Instructions for Use

Surface Preparation

The strength of the cured ANCHORTITE permits the assembly of anchors capable of high loadings.

The ultimate load will be governed by (please refer to Table 1):

- Strength of substrate
- Length of resin bond to bar
- Type and dimension of bar
- Hole preparation

Mixing

ANCHORTITE consists of two components, resin and catalyst (with filler) which are supplied and pre-weighed in correct proportions.

Mix the two components well, preferably using a mechanical stirrer until a uniform consistency is obtained.

Application

The mixed grout should be poured or pumped steadily into the prepared holes well within the gel time. The mix should be injected to the bottom of the hole to avoid air entrapment. The bar or bolt should then be inserted into the hole to the required depth using a twisting motion. This will assist in ensuring a complete bond. The assembled bar should be left undisturbed till the grout hardens.

Cleaning

All used tools should be cleaned with SOLVENTE 10 before the product cures. Cured materials should be mechanically removed.

Recommendations

- Do not add other materials to ANCHORTITE
- Do not mix more grout than can be applied within the pot life of the material
- At temperature above 40°C, creep of the cured grout may become significant.
- Anchoring strength depends on: strength of substrate, resin embedded length, hole preparation, steel bar type and diameter.

Storage

Keep the product in dry, covered conditions at < +25°C. In these conditions, product stability is 3 months from date of manufacturing.

Health & Safety

Wear protective gloves and goggles during application. This product contains chemicals which may be potentially harmful to your health if not used properly. It is strongly recommended to read the material safety data sheets for proper storage and to observe precautions.

If contact with skin or eyes happen, use resin cream to remove it from skin followed by clean water, do not use solvent. In case of contact with eyes, use clean water and seek medical consultation.

Consumption

Technical Data

Properties	Results
Color	Light beige
Wet density at 25°C	1.95 kg/L
VOC	22.0 g/L
Pot life at 25°C	30 minutes
Compressive strength At 3 hours At 24 hours At 7 days (BS 6319)	78 N / mm ² 80 N / mm ² 89 N / mm ²
Flexural strength at 7 days (BS 6319)	23 N / mm ²
Tensile strength at 7days (BS6319)	12 N / mm ²
Slant shear strength (BS 1881, part 207)	120 N

All values are subject to 5-10 % tolerance

Packaging

ANCHORTITE is supplied in 1 Liter kit (2 components).

Concrete strength (N/mm ²)		20	≥ 30	≥ 40	
Concrete shear stress (N/mm ²)		2.0	2.2	2.5	
Bar Diameter (mm)	Yield (Tons)	Hole Diameter (mm)	Minimum Hole Depth (mm)		
12	5.4	20	236	215	189
16	9.6	20	420	382	335
20	14.7	25	524	477	420
25	27.9	32	640	582	512
32	37.6	38	884	803	707

Holes should be drilled using rotary percussive drilling techniques. If diamond drilling is used, holes should be scabbled. If these precautions are not taken the smooth finish which obtained from diamond drilling can lead to reduce pull-out strengths. Pre-cast holes should be of dovetail configuration and have roughened sides. After drilling, holes should be brushed and blown out twice, to remove all drilling debris. Bars and bolts should be degreased and any mill scale or rust should be removed. Bar reinforcement should be clean and free from rust.

Table 2: Showing the approximate Volume of ANCHORTITE required (ml) per 100 mm of bond length.

Hole Diameter	Bolt Diameter					
	12	16	20	25	32	38
mm						
20	20					
25	38	29	18			
32	70	60	49	31		
38		94	82	64	33	
45			128	110	79	63
50				155	123	91

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