

PREPRUFE® Grout EG 75

Three part epoxy grout for waterproofing of pile heads.

Product Description

PREPRUFE® Grout EG 75 is a high performance, solvent free, impermeable epoxy grout for maintaining continuity of PREPRUFE® waterproofing systems at pile heads and similar structural penetrations. The product comprises: a base epoxy resin, an epoxy hardener and graded mineral aggregates. The three components are supplied pre-measured for easy on site mixing at the correct ratio.

Product Advantages

- water resistant adhesion to all products in the PREPRUFE® sheet waterproofing system
- impermeable
- high bond to substrate
- rapid strength gain
- high compressive, flexural and tensile strengths
- fluid consistency
- solvent free
- no segregation or shrinkage
- highly resistant to acids, alkalies, common salts and sulphates
- easy mixing and placing

Applications

- recommended thickness range 10 mm to 75 mm
- waterproofing of pileheads and pilecaps
- waterproofing of structural penetrations through PREPRUFE® sheet waterproofing systems

System Components

To achieve continuity of PREPRUFE® sheet waterproofing systems at pile heads and similar structural penetrations, you will need the following system components.

- BITUTHENE® LM – high performance, liquid membrane
- PREPRUFE® 300R sheet membrane
- PREPRUFE® Tape – for sealing of laps in PREPRUFE® sheet membranes
- ADCOR® 500S – hydro-expansive waterstop for concrete construction joints
- PREPRUFE® Grout CEM 100 (optional) – high performance non shrink cementitious grout for re-profiling pile heads before the application of PREPRUFE® Grout EG 75 (see separate product data sheet)

Application

Surface Preparation:

Concrete substrates should be dry and free from surface contaminants, curing compounds and dust. Remove any friable material and laitance by mechanical means. Remove rust from any reinforcement that will be in contact with the epoxy grout.

Formwork:

Formwork must be constructed to be leak-proof as PREPRUFE® Grout EG 75 is fluid when mixed. Seal all joints in formwork with a cartridge of sealant/adhesive. All formwork should be coated with a mineral oil or water based release agent, before the grout is placed.

Mixing and Placing:

Using a clean 25 litre pail, pour component A into the pail, add component B and mix using a clean paddle mixer and slow speed drill (max 400 rpm) for two minutes. Slowly add the full contents of component C, mix continuously, and scrape unmixed material from the side and bottom of pail with a trowel. Mix for a minimum of three minutes or until a flowable homogenous consistency is achieved. Pot life at 45° C is around 30 minutes. Pour the grout from the pail into the forms continuously, if more than 20 litres of grout is required, mix the next unit whilst the first is being poured to enable continuous placement. Finish with a trowel where necessary.

Cleaning:

Tools and equipment can be cleaned with a solvent tool cleaner. Use before the epoxy grout has hardened. Observe all health and safety advice of the cleaning solvent manufacturer.

Re-profiling Grout:

Where the use of cementitious re-profiling grout is necessary, use only PREPRUFE® Grout CEM 100. See separate product data sheet. Do not use other non-shrink cementitious grouts or site batched sand/cement mortars.

Supply and Storage

COMPONENT	TYPE	PACKAGING
A	Epoxy base resin	Metal can
B	Epoxy hardener resin	Metal can
C	Graded mineral filler	Heavy duty paper bag
Mixed volume of components A + B + C	20 litres	
Estimated pilehead coverage at 10 mm thickness per 20 litre unit	Approx 1.8 m ² depending on substrate surface irregularity	

Store unopened in original packaging in cool, dry conditions out of direct sunlight and remote from direct heat sources. Shelf life in these conditions is 12 months from date of manufacture.

Technical Data

PREPRUFE® GROUT EG 75	TYPICAL VALUE	TEST METHOD
Thickness range	10 mm – 75 mm	
Flow at 23°C	250 mm	BS EN 1015 – 3 cone
Flow at 45°C	280 mm	BS EN 1015 – 3 cone
Pot life at 23°C	45 mins	ASTM C308 (modified)
Pot life at 45°C	30 mins	ASTM C308 (modified)
Peel adhesion to PREPRUFE®	1.2 N/mm	BS EN 12068 Annex C
Peel adhesion BITUTHENE® LM to hardened PREPRUFE® EG 75	3.4 N/mm	BS EN 12068 Annex C
Compressive strength 7 day at 23°C	75 N/mm ²	BS 6319 : Part 2
Flexural strength 7 day at 23°C	25 N/mm ²	BS 6319 : Part 3
Tensile strength 7 day at 23°C	15 N/mm ²	BS 6319 : Part 7
Bond strength to concrete 7 day at 23°C	2.5 N/mm ²	ASTM D 4541
Fresh mixed density	2.10 kg/Lit	ASTM C905-79
Water penetration	Nil	BS 12390-8
Rapid chloride permeability	Nil	AASHTO T 277-83

Note: All test results shown in this data sheet are determined under laboratory conditions, using product samples taken from inventory in original packaging, without alteration or modification.

Health and Safety

Before using this product, read the product labels and comply with all health and safety advice. Further health and safety information is available from the products Safety Data Sheet (SDS) available from GCP or on line at gcpat.com.

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