

## Grout 447 SFR

### Reinforced fibre castable mortar for fast reconstruction operations



Castable mortar, reinforced with steel fibres, fast-curing, based on portland cement, special binders, selected siliceous aggregates and specific rheologic agents, for repairs, reconstructions and anchorages for fast re-use, in road works and in concrete, even in severe weather conditions and at low temperatures.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray / Black

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FIELDS OF APPLICATION

Repairs, reconstructions and anchorages for fast re-use, in road works and in concrete, even in severe weather conditions and at low temperatures. Quick anchoring of metal partitions and elements, grouts, equipment installation, street manhole covers, etc.

### ALLOWED SUPPORTS

Concrete - Asphalt

### PREPARATION OF SUPPORTS

The surfaces should be clean and free of any soiling, crumbling and non-adhering parts, dust, salt efflorescence, milt of cement etc., free of oils, greases, properly hardened and compact. An adequate roughening of the surfaces by scarifying, sandblasting etc. is always necessary in order to obtain the maximum adhesion values to the substrate. The optimal values are obtained with high pressure hydro-scarification. Bare the irons undergoing disruptive oxidation or deeply oxidized, removing the rust of the exposed irons (by sandblasting or abrasive brushes).



## MODE OF USE

Given the peculiarities of the product, it is advisable to adjust the mixing water as required from time to time, taking care not to make the product too fluid. Pour about 15% of water on the weight of the bag in the mixer, gradually add the product and the water still required, until the desired consistency is obtained. Continue to mix until a homogenous lump-free mixture is obtained.

## APPLICATION METHODS


Brick trowel - Pour out - Finishing trowel - Spatula


## TOOL CLEANING


Water


## KEY FEATURES

 Maximum diameter of aggregate: 5 mm


 Mix with water: 12 - 14 %

 Quick setting product


 Temperature of use: 0 / +25 °C

 UV-resistant

 Min. recommended thickness: 2 cm

 Pot-life: 10 - 20 min

 Shelf-life: 12 months

 Use wearing protective gloves

## TECHNICAL SPECIFICATIONS

*UNI EN 12190*

Compressive strength after 1,5 hours > **2 N/mm<sup>2</sup>**

*UNI EN 12190*

Compressive strength after 1 day > **50 N/mm<sup>2</sup>**

*UNI EN 12190*

Compressive strength after 28 days > **90 N/mm<sup>2</sup>**

*UNI EN 196/1*

Flexural strength after 7 days > **12 N/mm<sup>2</sup>**

*EN 13295*

Resistance to carbonatation > **reference concrete**

*EN 13412*

Static elastic modulus **30000 N/mm<sup>2</sup>**

Chloride content < **0.01 %**

Reaction to fire **A1 (incombustibile)**

*UNI EN 12190*

Compressive strength after 4 hours > **10 N/mm<sup>2</sup>**

*UNI EN 12190*

Compressive strength after 7 days > **70 N/mm<sup>2</sup>**

*UNI EN 196/1*

Flexural strength at 1 day > **8 N/mm<sup>2</sup>**

*UNI EN 196/1*

Flexural strength after 28 days > **13 N/mm<sup>2</sup>**

*UNI EN 1015-6*

Density **2100 kg/m<sup>3</sup>**

Thermal compatibility > **2 MPa**

Capillary absorption **0.5**

*UNI PdR 88:2020*

By-product recycled material content  $\geq$  **3.8 %**

## CONSUMPTION

Approximately 21,50 kg/m<sup>2</sup> of Grout 447 SFR for every centimetre of thickness to be implemented (approximately 2150 kg per cubic metre).



## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.

## PHOTO GALLERY



## ADDITIONAL CONTENT



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## WARNINGS AND PRECAUTIONS

The mortar should be laid within the specified time of workability, which may change depending on the temperature. The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

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It is forbidden to dispose of the product and/or packaging in the environment.

