

AR Glassfibre Spray Roving - 16.7%

AR Glassfibre Spray Roving 16.7% is an alkali resistant glass fibre roving (ZrO₂>16.7) designed for use in all kinds of GRC exterior cladding panels and composites using the spray applied production method



Application

Spray-up is like shotcrete. The fluid concrete mixture (minus ARG fibers) gets sprayed into forms. The concrete gets sprayed out of a gun-like nozzle. It also chops and sprays a separate stream of long fibers.

The concrete and fibers mix when they hit the form surface. ARG fiber feeds off of a spool in a continuous thread into the gun, where blades cut it before it's sprayed.

Chopped fiber lengths tend to be much longer (about 1.5"/40mm) than fibers that get mixed in. If fibers were longer these would ball up if mixed into the concrete before spraying.

- Product Code : ARG Spray Roving ARC13-2700H ZrO₂ ≥16.7%
Test Condition : Temperature & Humidity 24°C 56%

Benefits

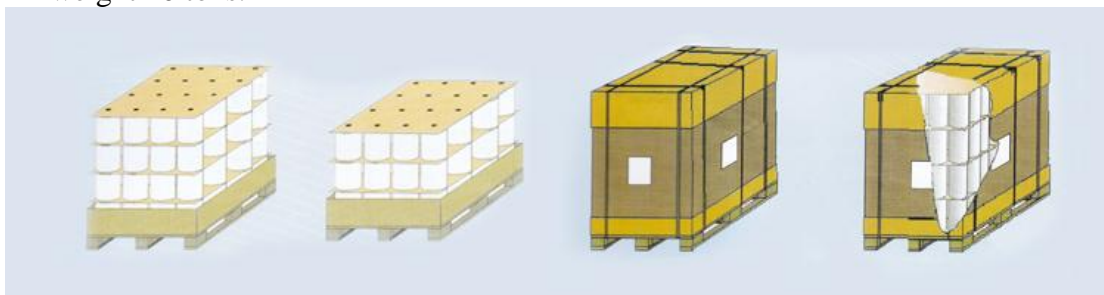
- Alkali resistant fiberglass
- Safe easy handling
- Excellent mechanical performance
- Easy blending into the GRC matrix
- Easy spraying & chopping
- Perfect for incorporation into complicated composite profiles and details
- Approved by Sheffied University,UK

Dosage

AR Glassfibre roving is used for spraying with industry standard GRC spray equipment. The normal recommended dosage is 5% by weight.

Packaging & Storage

- 18±1kg/roll,individually shrunk film packaging (with weight tag);
- Each fumigated pallet has 3 or 4 levels with 16 rolls/ level,48 rolls/small pallet , 64rolls/big pallet.
- Loads 20 pallets (Small & big pallet stacked in 2 layers) per 20 feet container, with a net weight 20 tons.



Alkali Resistant glass fibre chopped strands 16.7%



Premix

16.7% Premix is a high integrity chopped fibre, designed for using in dry mix systems or other premixing processes for subsequent molding into a GRC intricate component.

High Integrity

16.7% High integrity has a low-tex strand which permits efficient reinforcement at low dosages. The coating size systems give easy incorporation whilst retaining best strand integrity, especially used in electric closet panels.

Water Dispersed

16.7% water dispersed can be simply added to the mix at the workshop without the need of a special equipment and disperse into filaments in a matrix of calcium silicate slurry, cement slurry etc.

Application

The 'Premix' production technique involves pouring or pumping a cement/fibre mix into a mould, similar to other precast production processes. The mix is compacted using vibration or by adding other components. The unit is left in mould to set and demoulded the following day. Pre-mix has the advantages that moulds can be simpler to produce and strip.

Benefits

- Excellent alkali resistant and durability
- Highest integrity during mix
- Good stiffness
- Good fluidity
- Compatible with concrete slurry
- Tested in Sheffield University,UK

Packaging & Storage

20kgs /kraft bag, 40bags/800Kg/pallet/109*109*105cm; 50bags /1000kg/109*109*125cm, 20pallets/ 1 20ft container, N.W.18 tons.

AR Glassfibre pallets are best stored dry in original packaging and its advisable to stack in one layer, at a temperature between 15 - 35 degrees C with a relative humidity between 35% - 65%. If stored below 15°C, it is advisable to hold in the workshop for 24 hours to prevent condensation before use.