

PRODUCT DATA SHEET

AR CHOPPED STRANDS FOR REPAIR MORTARS AND PREMIX GRC

DESCRIPTION

Covidro is a high integrity AR glass fibre chopped strand designed for premixing with other materials and the resulting mix is formed by vibration casting or other processes into molded GRC components. It can also be used as a component of repair mortars to enhance their performance.

BENEFITS

- High integrity during mixing
- Low-Tex strand
- Easy incorporation
- High performance with low dosage
- Excellent reproduction of detail
- Good level of workability
- Reduced water demand compared to other fibers
- Improves mechanical performance of GRC elements
- Makes highly durable GRC elements
- Safe and easy to handle

APPLICATIONS

- The high integrity of the product makes it suitable for use in a variety of production processes including vibration-casting, pumping, spraying, or dry-blending with other materials.
- Covidro chopped strands are designed for ease of incorporation even at high dosage and remain integral during mixing. It is used in the manufacture of repair mortars, standard GRC components such as drainage channels or meter boxes, or in architectural applications such as decorative screen walling and ornate moldings.
- Covidro's hydrophobic behavior makes the mix more fluid and that ensures better compaction and easier release of trapped air.

TECHNICAL CHARACTERISTICS

Fiber length	Filament Diameter	Tex (g/km)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
6 – 12 – 18 (mm) / ¼” – ½” – ¾”	14 µm / 0.000546”	82	0.90 (6-12mm) 0.95 (18 mm)	0.50 max.
12 – 18 (mm) / ¼” – ½” – ¾”	18 µm / 0.0007”	135	0.95	

Electrical Conductivity: Very low

Chemical Resistance: Very high

Specific Gravity: 2.68 g/cm³

Modulus of elasticity: 72 GPa – 10 x 10⁶ psi

Material: Alkali Resistant Glass*

Tensile Strength: 1000–1700 MPa – 145–250 x 10³ psi (ASTM C1666 and EN15422)

Softening point: 860°C – 1580°F

*Our fibers are manufactured with high Zirconia content in compliance with ASTM C1666/C 1666/M-07 and EN 15422 and under the recommendations of PCI and GRCA

DOSAGE

For repair mortars, recommended dosage is in between 1 to 2%, or 25 to 50 kg/m³ (42–84 lb/cu.yd). For Premix GRC, recommended dosage is from 2.5 to 3.5% by weight.

COVIDRO



PACKAGING AND STORAGE

Covidro chopped strands are packed in individual plastic bags (6–18 kg). Covidro chopped strands should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperatures between 15°C and 35°C and humidity between 35% and 65%. If the product is stored at lower temperatures it is advisable to condition it in the workshop for at least 24 hours before use to prevent condensation.

QUALITY STANDARDS – CERTIFICATION

Covidro fibers are manufactured under a quality Management System approved to ISO 9001.

Covidro fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instructions Sheet.