

## Specialty Grouts and Cements

### Top-Down 80 Plus Grout

Top-Down-80PLUS is a pumpable cementitious grout for use as a bonding agent between a reinforcing member and the borehole wall in ground support systems. The product is specifically suited for long distance pumping up to 100 metres. TD80PLUS grout is packaged in durable water proof 20 kg bags for use in remote and harsh underground mining environments. The product is designed to minimise the risk of hard lumps entering pumping injection systems, which in turn minimises hazardous pressurisation and blockages.

#### Features:

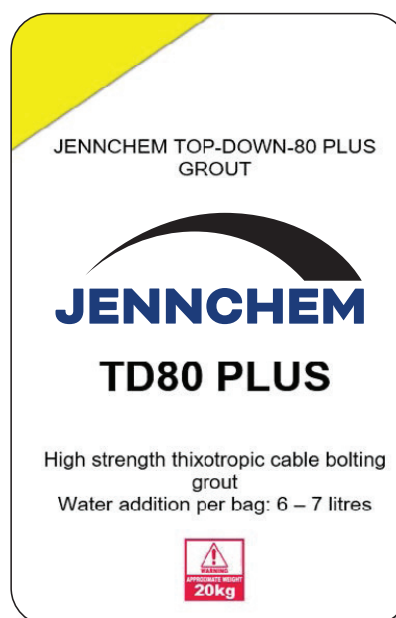
- Highly thixotropic to enable top-down grouting
- High strength – 80 Mpa
- Excellent pumpability. Longer pumping distances achieved, up to 100 metres
- Shrinkage compensation maintains full grout contact between the ground support and borehole wall

#### Application:

- A high shear mechanical mixer is required
- Typical pump pressure requirement 500psi
- Maximum pumping distance 100m through a 25mm hose

#### Packaging:

- Durable water proof 20kg bags for use in remote and harsh underground mining environments
- 56 bags per pallet, 1.2 tonne per pallet



Uniaxial Compressive Strength* (MPa)			
	1 DAY	7 DAYS	28 DAYS**
6 litres/bag	43	77	89
7 litres/bag	33	63	80

\*UCS independent test results were obtained using 50 x 50mm cubes

\*\* 28 day strength may vary between 70 MPa and 90 MPa depending on water content and testing method utilised

Water : Grout Mix	6 - 7 litres per bag
Estimated Yield	13 - 14 litres per bag
Fresh Wet Density	2000 kg/m <sup>3</sup>
Set Time	7 hrs
Expansion	1-3%