



Mandals Mortar is a light weight, safe, and reliable concrete boom hose, suitable as end hose and as delivery line system. The hose answers a need in the market for a safe and easy to handle hose that eliminates dangerous whipping due to air-pockets.

The Mandals Mortar is a stand-alone series of aramid reinforced hoses.

Primary Uses & Applications

- Easy pouring of concrete in tight places for formwork.
- Underwater concrete placement.
- Suitable as end-hose and delivery line system. Hoses to be used for mortar-conveying and spraying machines require custom marking and lower working pressure rating to meet EN12001 requirements.

Features

- 1/3 the weight of a traditional "flexible boom hose".
- Ideal for ICF forms as well as tall walls and columns with limited space.
- Improved flow control and placement rates compared to conventional concrete discharge hoses.
- Excellent abrasion resistance.
- Pressurized air pockets do not cause dangerous whipping of hose.

Construction

- A high-tensile aramid reinforcement jacket enveloped by a high-grade thermoplastic polyurethane (TPU) lining and cover material.
- The TPU is extruded through a circular woven reinforcement, creating a strong bond between cover and lining that prevents delamination, as well as firmly encapsulating the reinforcing polyester.

Properties

- Length up to 300m. Longer lengths on request.
- Color options: Orange (standard).
- Operating temperature from -50°C to +65°C (-58°F to +149°F).
- Conforms with or exceeds ASME B30.27-2019 and EN12001:2012 requirements.

Mortar

Article Number	Fitting size	Inner Diameter Hose ¹		Wall Thickness		Hose Weight		Filled Hose Weight ²		Maximum Working Pressure		Burst Pressure		Nom. Tensile Strength ³	
		Inch	mm	Inch	mm	lbs/ft	kg/m	lbs/ft	kg/m	psi	bar	psi	bar	X1000 lbs	X1000 kg
UHP087	3	3.42	87	0.20	5.2	1.14	1.70	12.3	18.3	1250	86	2683	185	110	50
UHP102	4	4.35	110.5	0.18	4.6	1.20	1.80	17.9	26.6	1250	86	2500	172	178	80
UHP127	5	5.33	135.5	0.20	5.0	1.75	2.60	26.8	39.9	1250	86	2500	172	218	98

Note: ¹Tolerance range based on ISO1307 Type C. ²Including 2400kg/m³ (150lb/ft³) density of concrete inside hose. ³Calculated value. Use a reduction factor of 0.75 for realistic maximum tensile strength values. Do not apply a higher longitudinal load than 25% of the listed Tensile Strength.

Warning

Improper use and misuse of the hose may cause serious injury.
Safety instructions can be found on: mandals.com/safety.
Only use Mandals Mortar couplings or other forged press-fit couplings with proven pressure rating of assembly.
End-hoses must be restrained to the placing boom with a safety sling or whipsock around the hose as fall preventer.