

# Technical Data Sheet

Date of compilation: 02/09/2021

## ARC POWDER MORTAR TONE

### DESCRIPTION

Powder mortar tone is an Iron Oxide/Carbon Blend for colouring cementitious mixes such as mortars, renders, concrete, pointing and grouts.



### INSTRUCTIONS

Add the mortar tone to the dry mix and mix well until the colour is dispersed prior to adding clean water. To achieve consistency of colour in each mix, use the same grades of cement, sand, aggregates and mix ratio.

To produce full strength colour, use 1/2kg mortar tone to 10kg of cement. Reductions in the amount of mortar tone will reduce the colour strength.

### TECHNICAL FEATURES

Compliance: EN 12878:2014 Category A (non reinforced materials)

#### Effect on Concrete (compared to an unpigmented mix)

Initial Setting Time	> 60min EN 196-3
Influence on Setting Time	< 60min EN 196-3
Final Setting Time	< 720min EN 196-1
Influence on Compressive Strength	< 10.00%

#### Composition and Analysis

Colour	Black	Red	Brown	Buff
Carbon Black XRF	> 10.00	-	-	-
Iron (as Fe <sub>2</sub> O <sub>3</sub> ) (%) XRF	-	> 32.00	> 21.80	> 12.60
Water Soluble Content (%) EN ISO:787-3:2000	< 1.44	< 0.2	< 0.12	< 0.11
Soluble Chloride (%) EN ISO:787-13:2000	< 0.66	< 0.48	< 0.57	< 0.64
Total Chlorine (%) XRF	< 1.05	< 0.68	< 1.10	< 0.86
Sieve Residue (0.045mm) EN ISO:787-7:2009	< 31.82	< 23.00	< 27.00	< 30.40
pH Value EN ISO:787-9:1995	4.1 to 8.1	4 to 8	3.8 to 7.8	3.9 to 7.9
Loss on Ignition @ 1000°C (%) EN 12878:2014	< 28.73	< 11.20	< 14.39	< 16.80

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### Colour Values and Tinting Strength

Standard	2012
Binder	White Cement
Colour Difference $\Delta E$	1.5 Max No. 1
Relative Tinting Strength	95 Min 105 Max No.1

### STORAGE & PACKAGING

Store in dry conditions for an indefinite shelf life.

Available in: Black, Red, Brown & Buff. 1kg containers packed in 6 units/box.

### HEALTH & SAFETY

Please refer to the Material Safety Sheet for safety and environmental information.

### NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail [technical@arcbuildingproducts.ie](mailto:technical@arcbuildingproducts.ie). Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.