



# CONMIX LTD.

## BLOCK LAYING MORTAR - CM4

### Factory mixed mortar...

CM4 is a dry pre mix, sand cement mortar for laying masonry bricks or blocks. It has excellent workability and stability that enables fast working with blocks & bricks. CM4 is available with or without lime, complying to different European and American standards like BSEN998-1 class M5, M10 & M15, ASTM C270 class N, S & M. CM4 is also available in different colours.

#### TECHNICAL DATA

Composition	: Ordinary portland cement, hydrated lime, processed sand and chemical additives for improved workability and bonding.
Binder	: Portland Cement & Lime (proportion depends upon class of CM4)
Aggregate size	: 4 mm processed sand
Appearance	: Grey granular powder
Mixing Ratio	: 7.5 ltrs per 50 kg bag      Water/Powder Ratio 0.15
Working Time	: Approx. 30 minutes.
Ideal Mortar Temp.	: < 32°C

#### APPLICATION METHOD

##### BACKGROUND

Blocks/bricks should be thoroughly cleaned, devoid of dust, loose particles mould oil etc. The blocks/bricks should be prepared as per general civil work guidelines.

Properties	CM4	CM4 - N	CM4 - S	CM4 - M
<b>Density*</b>	Wet - 1.75 kg/ltr.	Wet - 1.75 kg/ltr.	Wet - 1.80 kg/ltr.	Wet - 1.85 kg/ltr.
	Dry - 1.7 kg/ltr.	Dry - 1.7 kg/ltr.	Dry - 1.75 kg/ltr.	Dry - 1.80 kg/ltr.
<b>Comp. Strength*</b>	6 N/mm <sup>2</sup> @ 28 days	6 N/mm <sup>2</sup> @ 28 days	13.5 N/mm <sup>2</sup> @ 28 days	18 N/mm <sup>2</sup> @ 28 days
<b>Flex. Strength*</b>	1 N/mm <sup>2</sup> @ 28 days	1 N/mm <sup>2</sup> @ 28 days	1.2 N/mm <sup>2</sup> @ 28 days	1.5 N/mm <sup>2</sup> @ 28 days
<b>Approx. Yield*</b>	32 ltrs per 50 kg bag	32 ltrs per 50 kg bag	31 ltrs per 50 kg bag	31 ltrs per 50 kg bag
<b>Lime Content</b>	No	Yes	Yes	Yes
<b>Complying Standard</b>	BS EN 998, BS 5262	ASTM C 270- Type N & BS EN 998 Class M5	ASTM C 270- Type S & BS EN998-1 Class M10	ASTM C 270- Type M & BS EN 998 Class M15

\* Typical results under laboratory condition

Compressive Strength as per ACTM C109/109 M





## MIXING

CM4 supplied in 50 kg bags has to be mixed with potable water only, in a clean plastic bucket or a clean, non-corrosive, un-contaminated metal tub. To ensure a homogenous and uniform mix, an electric agitator must be used. The amount of water to be added is 7.5 ltrs per 50 kg bag (i.e. approximately 15% by weight). Add CM4 to water, turn the contents of the bag carefully and stir frequently. Once mixed allow to stand for 5 minutes and mix again before applying. No further water should be added to the mix. Hard and set plaster should not be remixed or used. Mortar needs to be fluffy, sticky in texture and creamy in appearance.

## APPLICATION

CM4 can be applied over the blocks for building up the walls and to fill the joints with required thickness by means of a trowel and levelled. Allow it to set for approximately 30 minutes prior to removal of excessive material.

## SPECIAL NOTES

The applied CM4 has to be water cured for a period of 2 days. For application procedure in case of light weight blocks or building material, kindly contact conmix technical department for assistance.

**“Conmix CM4 is available in a standard cement sand mixed ratio of 1:6. However, it can also be designed in various other mix ratios with hydrated lime as per the project specification”.**

## STORAGE

Conmix CM4 must be stored in a dry place, off the ground and well covered. Hard or lumpy material must be rejected.