

Durgipen 191

hard plaster

Durgipen 191 is a formulated hemihydrate hard plaster ($\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$) produced from naturally occurring gypsum mineral.

Application:

Durgipen 191 is used in the ceramics industry to produce block and case moulds, where high strength and dimensional accuracy are extremely important.

Technical Specification:

The technical data outlined represents typical averages.

Colour:		with grey
Data at pwr of 2:1 of weight:		
Vicat ring spread	[cm]	18 – 23
Knife setting time	[mins]	12 - 16
Compressive strength, dry	[N/mm ²]	24.5
Bending strength, dry	[N/m ²]	7.8
Brinell hardness, dry	[N/mm ²]	70
Linear expansion, 2hrs after setting:	[%]	0.15

Sieve Analysis:

weight retained + 200 microns	[%]	max. 0.04
weight retained + 90 microns	[%]	max. 4.0

Processing:

The recommended plaster to water ratio is between 1.82:1 and 2:1, with a mixing time of approx. 2 to 4 minutes, depending on batch size.

The plaster to water ratios quoted are those used in our standard test methods and are not necessarily those used in practice. The precise consistency to use will need to be adjusted to suit the individual application. Changes to plaster to water ratio will influence product performance particularly setting time and strength.

Plaster based products are not recommended for conditions where they are likely to be located externally or in any way subjected to weathering or excessive dampness.

Absorption of moisture can result in changes to physical properties including a reduction in the set strength of plasters and also a lengthening of setting time. To help protect the product during use, open or part used bags should be carefully folded and closed.

Packing:

25-kg-paper bags.

Storage:

When stored under dry conditions, this product will have a shelf life of six months from the date of manufacture that is displayed on each sack.

The above information is correct to the best of our knowledge and careful consideration. We guarantee the faultless and consistent nature of our products, however, we are not liable for further processing results that usually arise beyond our control. Safety Data Sheets are available and can be requested from KBO.

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