



**HEMIHYDRITE** is also known as *plaster of paris*

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## USES

**HEMIHYDRATE** is used to precast and hold parts of ornamental plasterwork placed on ceilings and cornices. In medicine it is used to make plaster casts.

## PRODUCT DESCRIPTION

**HEMIHYDRITE** is a calcium sulphate hemihydrate. Its chemical formula is:  $\text{CaSO}_4 \frac{1}{2}\text{H}_2\text{O}$ .

## PHYSICAL PROPERTIES

**Colour:** off-white

**Packaging density:** 0.6 – 0.8 g/cm<sup>3</sup>

**Initial setting time:** 8 – 16 min

**Final setting time:** 30 – 50 min

**pH:** 7 – 10

**Specific surface:** 7000 – 10000 cm<sup>2</sup>/g

**Dry density:** 1.14 kg/l

**Specific gravity:** 2.6

**Combined moisture:** 5.0 – 7.0%

**Water/powder ratio:** 0.5 – 0.7 ml/100 g

**Compressive strength:** 8 – 10 N/mm<sup>2</sup>

## CHEMICAL PROPERTIES

Chemical	%
SiO <sub>2</sub>	0.77
TiO <sub>2</sub>	<0.02
Al <sub>2</sub> O <sub>3</sub>	0.52
Fe <sub>2</sub> O <sub>3</sub>	<0.51
MnO	<0.09
CaO	44.3
Na <sub>2</sub> O	<0.04
K <sub>2</sub> O	<0.01
P <sub>2</sub> O <sub>5</sub>	2.32
SO <sub>3</sub>	40.64
MgO	0.19
H <sub>2</sub> O	5.44
CaSO <sub>4</sub> 2H <sub>2</sub> O	92.9



108 Pebble Lane, Clayville ext. 14, Olifantsfontein, SA  
Tel: +27 11 316 4390 (SA) or +27 87 351 4886 (VOIP)  
Fax: +27 11 316 4395  
[www.metadynamics.co.za](http://www.metadynamics.co.za)

## **PACKAGING**

40 kg bags.

## **SAFETY PRECAUTIONS**

Keep out of reach of children  
Avoid inhalation of powder and dust  
Ensure good ventilation during application & drying  
In case of skin contact, wash with soap and water