

## The Products:

### High Burnt Gypsum

#### „Upper Trias M (Keuper M)“

Upper Trias Gypsum from gypsum quarry Sulzheim / Lower Franconia

### High Burnt Gypsum „A3“

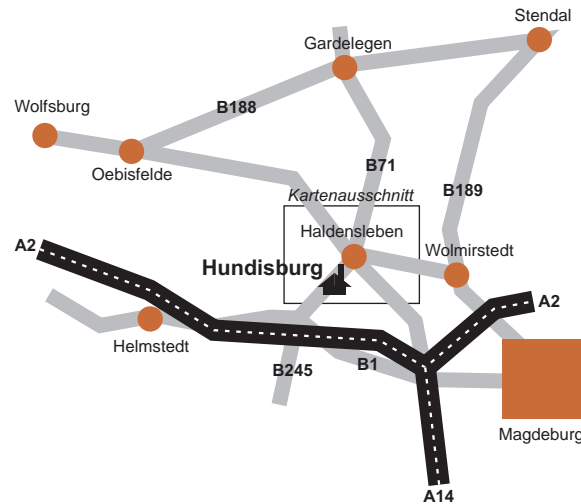
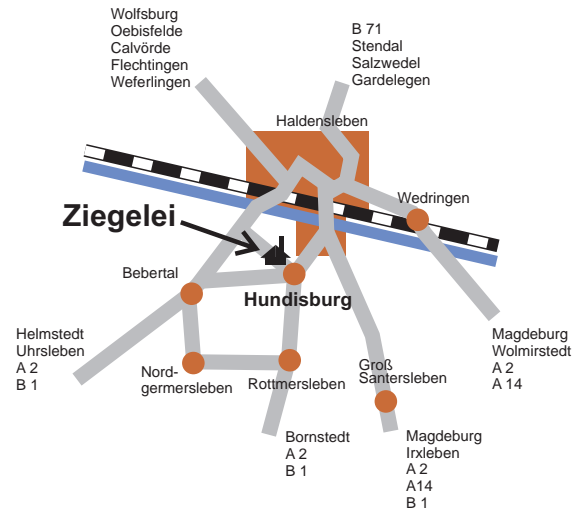
Upper Permian from gypsum quarry in Osterode / Southern Harz Mountains

### Keene`s cement /marble cement

Consisting of alabaster from Volterra / Italy and A3 Upper Permian from Osterode / Southern Harz Mountains

### Plaster Rock

In different grain - size fractions



Address:

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High Burnt Gypsum from Hundisburg

The Original



# High Burnt Gypsum

Burnt gypsum is one of the oldest verifiable building materials in addition to lime and clay.

In areas there you can find gypsum sources the gypsum has been separated, calcined, milled, mixed for mortar and used for interior and exterior and even works of art, effectually, since antiquity.

Since the second half of the 19th century gypsum has been displaced exterior by cement. The knowledge about manufacturing and working with high burnt gypsum has been lost within some years.

The traditional high burnt gypsum has been appreciated interior and exterior because of its hardness and weather-resistance. The traditional one is basically different from the contemporary low burnt gypsum you can purchase in the common builders' merchant's.

Due to the different local deposit of gypsum, the colour of gypsum is different and so an identifying feature of the traditional gypsum.



The free burning kiln

Charged kiln with pipes

The taking of the burnt material



# Gypsum in Hundisburg

Gradually the lost knowledge about the traditional technology of calcinations has been recovered by different trials.

In the course of these trials the Building material manufacture Hundisburg resumed the manufacturing of high burnt gypsum. Therefore it contributes to create an alternative to dissimilar and damage causing building materials in buildings which are originally raised up with gypsum.

The traditional kilns, fired with wood, have been copied by the historical tradition, where the kinds of high burnt gypsum from different regions with its variable colours are calcinated, later pulverized into different grading fractions and filled. The marble cement/Keene's cement will be calcinated in two separate work steps in a gas furnace, then ALA-UNISIERT and also pulverized.

The successful manufactory running measures up directly and individually to the consumer and utilization.

Raw material



End-product



# Use

Please pay attention to the present conditions of the material technologies, because they have an effect on the end-product. Especially the characteristics and the pre-treatment of the background should be marked.

Due to the fact that the several kinds of natural plaster rock get calcinated in traditional copied wood fired kilns you have to visualize a natural fluctuation range of the characteristic parameters. For that reason we advice to produce test pieces and test area. Thereby the possibilities of manufacturing can be optimized and if necessary boundary conditions may be influenced positive. In addition we advise to consult sophisticated professionals for working. As needed contact addresses can be communicated. The Hundisburg High Burnt Gypsum has been already processed successfully at several building lots in collaboration with diverse professionals. Gypsum was used booth as floor gypsum and plaster and masonry mortar.

Different kinds of surface finish like compacting by beating, polishing by different runs and deburring by spattle until it shines are possible. The options of converting are in accordance with the traditional gypsum to the greatest possible extent in relation to the ability for modification and pigmentation. However trial runs are advisable for definition of the most suitable composition.

