

## TEMPLE OF JUPITER

Sample no. 1

*Location* Podium, west side. Crown  
moulding. At the SW corner.  
Close to the south-west arch.

*Decoration* 1<sup>st</sup> style decoration.

*Layer* Plaster and stucco.  
This decoration continues  
behind the SW arch.  
Covered by a later decoration  
(sample no. 2).

*Photo* Film 17, photo 0, 1, 2.



*Plaster* Black and white, large grains

*Binder* Slightly yellowish lime, grainy.

*Filler* *Compact*: most medium size grains, rounded, small between some large.  
Mainly black, dark and warm grey. Some black with red dots.  
*Porous*: some very small red particles. Some small bright yellow.  
*Crystals*: many transparent uncoloured, some yellow and grey. One olive green. Few long broken black.

*Stucco* c. 2-3 mm.

*Lime* Clean white lime.

*Filler* Medium sized crystals, uncoloured and greyish, some large and small.

*Plaster type* **TJ 1 (group B)**

### Notes

The sample is thin and dirty, similar to late 1<sup>st</sup> style plasters and “sandy” as plasters of the 4<sup>th</sup> style. It is covered by another sandy plaster. These are not the same.

New sample: This sample is larger and thicker. It is a large-grained (late) 1<sup>st</sup> style plaster.

## TEMPLE OF JUPITER

Sample no. 2

*Location* Podium, west side. At the crown moulding. At the south corner close to the SW arch.

*Decoration* Last decoration.

*Layer* Layer covering the 1<sup>st</sup> style decoration.

*Photo* Film 17, photo 0, 1, 2.



*Plaster* Sandy plaster, red particles

*Binder* “Sandy” lime with pores.

*Filler* *Compact*: large and small grains. Mainly black and beige. Some pale and bright yellow grains.

*Porous*: many volcanic red.

*Crystals*: many uncoloured, some grey and yellow.

*Stucco*

*Lime*

*Filler*

*Plaster type* **TJ 2** (group G)

### Notes

This is the last decoration on the west wall of the podium. No stucco.

The plaster looks “sandy”, with pores (large airbags). Lots of red particles (cruma and terracotta).

*Sample analysed at CNR-ICVBC.*

Placed in the same group are:

TV1, M1, M5, TJ2: group 4.1.

Correlation:

M1, M5, TA11: group G.

M3, TJ2: group H.

## TEMPLE OF JUPITER

Sample no. 3

*Location* Cella, exterior wall. West side, NE corner, at the NW arch.

*Decoration* 1<sup>st</sup> style plasterwork.

*Layer* Plaster and stucco, continuing behind the arch.

Covered by a later decoration.

*Photo* Film 16, photo 1, 2.



*Plaster* Black and white, black crystals

*Binder* Lime with some pores.

*Filler* *Compact*: most small grains between some large, rounded and irregular, mainly black and dark grey, some red-brown. Some very large grey and black grains.

*Porous*: very few and very small orange-red. Very few bright yellow.

*Crystals*: many black crystals, many uncoloured, some grey, yellow, and very few olive green. Some black with red dots.

*Stucco* c. 4-5 mm.

*Lime* Snow-white lime.

*Filler* Mainly small and medium sized uncoloured crystals.

*Plaster type* **TJ 3 (group A)**

### Notes

This sample consists of three layers in continuity (lower-upper-stucco). The first (lower) layer has very small grains between some large and many black crystals. The upper layer has extremely small grains and lots of crystals in clean white lime. On the second layer is the preparation for painting, i.e. the stucco. This plaster is similar to that of sample no. 1 but TJ1 has more medium sized grains, more brown and grey and less black crystals. In some cases these differences are not striking.

To begin with I thought that this plaster is representative for early 1<sup>st</sup> style plasters; the filler with many long “broken” black crystals is a characteristic of the very early period. This plaster but became a problem, for two reasons. First of all: the 1<sup>st</sup> style plaster at the southern part of the podium reminds of a later period of the 1<sup>st</sup> style. An earlier plaster at the northern part seemed very unlikely. Secondly: the refined plastering technique at the Forum made me consider some oddities as due to technique. I also considered this plaster with a very fine grained plaster connected with the 2<sup>nd</sup> style. Having again studied the samples I return to my initial judgement; this is an early 1<sup>st</sup> style plaster and it represents the first phase at this temple.

## TEMPLE OF JUPITER

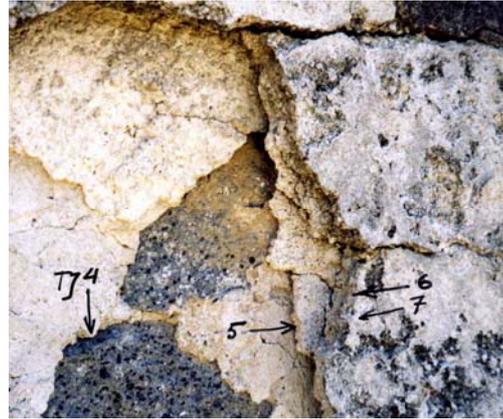
Sample no. 4

*Location* Cella, exterior wall.  
West side.

*Decoration*

*Layer* Preparation layer.

*Photo* Film 16, photo 5.



*Plaster* Sandy lime, preparation

*Binder* The lime looks “sandy”.

*Filler* *Compact:* few large black.

*Porous:* lots of small yellow particles.

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* Preparation.

### Notes

This plaster looks like yellowish clay, but it is a “sandy” lime plaster. This first application apparently was applied to fill the cavities between the stones. The next application (sample no. 5), is also part of the preparation, applied over the wall. It is similar but contains a lot of small red volcanic particles, and consequently is a kind of “water-proof” layer. A preparation layer of the same kind was applied on the west wall of the Basilica.

## TEMPLE OF JUPITER

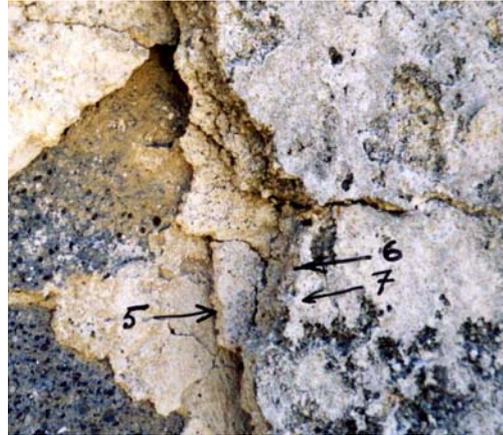
Sample no. 5

*Location* Cella, exterior wall.  
West side.

*Decoration* Preparation.

*Layer* Second preparation layer.

*Photo* Film 16, photo 5.



*Plaster* Sandy lime, preparation

*Binder* Lime with lumps

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* preparation

### Notes

The plaster consists of lime and very small particles, lots of volcanic red. It has lots of large pores (airbags).

## TEMPLE OF JUPITER

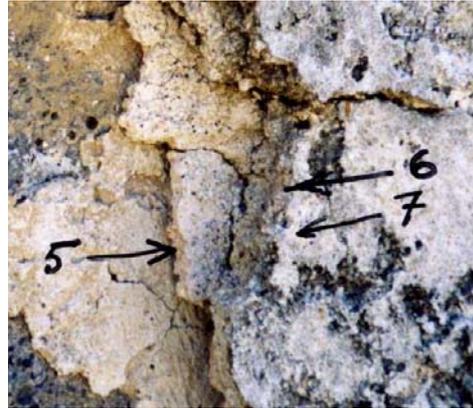
Sample no. 6

*Location* Cella, exterior wall.  
West side.

*Decoration* Last decoration.

*Layer* Third layer.

*Photo* Film 16, photo 5.



*Plaster* Sandy plaster, red particles

*Binder* Much lime with pores. Lumps of lime.

*Filler* *Compact:* large and small grains, mainly black. Some large black and dark grey.

*Porous:* many small red.

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 2

*Notes*

Same as no. 2.

## TEMPLE OF JUPITER

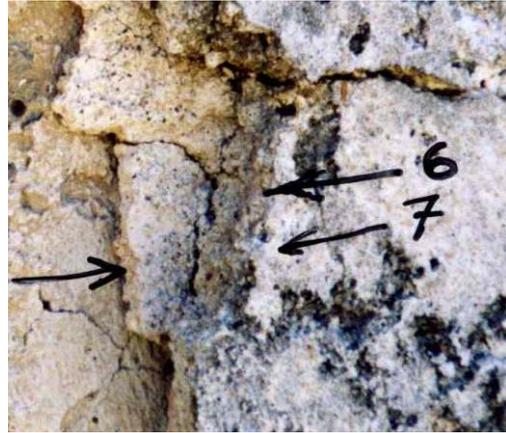
Sample no. 7

*Location* Cella, exterior wall.  
West side.

*Decoration* Last decoration.

*Layer* Upper layer with stucco.

*Photo* Film 16, photo 5.  
Colour slides.



*Plaster* Sandy plaster, red particles

*Binder*

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 2

### Notes

This wall was plastered in four layers. The first application was made to fill cavities between stones and to smoothen the surface. The second was a “waterproof layer (lots of red – *cruma* and *cocciopesto?*), and the two successive layers have a sandy look. Finally there is the preparation for painting, i.e. stucco. Layers 2-4 plus what remains of the stucco make ca. 4.5 cm.

The same plaster as sample nos. 6 and no. 2.

## TEMPLE OF JUPITER

Sample no. 8

*Location* Cella, interior. East wall  
between columns 3 and 4 from  
the SE.

*Decoration* 1<sup>st</sup> style plasterwork.

*Layer* Upper layer, with remains  
of a monochrome red paint  
layer.

*Photo* Film 18, photo 1.



*Plaster* Black and warm colours, small grains

*Binder* Lime lumps.

*Filler* *Compact*: mainly small grains between large. Black, grey, brown, red-  
brown. Some very large grey-beige.

*Porous*: few yellow and very small red.

*Crystals*: many crystals, mainly long black, many uncoloured, some  
yellow and beige. Many olive green.

*Stucco*

*Lime* White lime.

*Filler* Uncoloured, yellow and greyish crystals. Some red grains. Some  
uncoloured with bright green discoloration

*Plaster type* **TJ 8**

### Notes

This sample has two kinds of plaster. The upper layer is fine-grained with few black crystals and it contains brown, grey and red-brown grains, some green and yellow particles. It belongs to plasters group C. The lower layer has a filler with lots of black crystals just as the earliest plaster in this building, sample no 3.

New sample:

As described above. The top layer has the same kind of plaster as samples no. 13, 15, and 23.

## TEMPLE OF JUPITER

Sample no. 9

*Location* Cella, interior. East wall,  
at the socle between  
columns 6 and 7.

*Decoration* Black socle with stripes.  
Last phase.

*Layer* Upper layer with  
decoration.

*Photo* Film 17, photo 16.



*Plaster* Sandy plaster

*Binder* Clean lime with some lumps.

*Filler* *Compact:* small grains, some rounded, mostly black, some brown and  
pale yellow. Some very large pale grey “beans”.

*Porous:* yellow, red.

*Crystals:* many uncoloured, some yellow, one olive green.

*Stucco* Much lime and few crystals.

*Lime* Unclean lime

*Filler* Transparent and a few yellow crystals and black grains.

*Plaster type* TJ 2

### Notes

This is a sandy plaster with lots of large lumps of lime. It is the last phase in this room. The plaster is applied at the socle on the cella walls.

The decoration on the upper part of the cella walls was made on a plaster that belongs to group B. It is covered by a later phase, i.e. the decoration on the pilaster at the south wall. This plaster belongs to group E. One of the columns in the cella, also sampled, had a preparation of the same kind as on the pilaster. The socle plaster belongs to group H.

## TEMPLE OF JUPITER

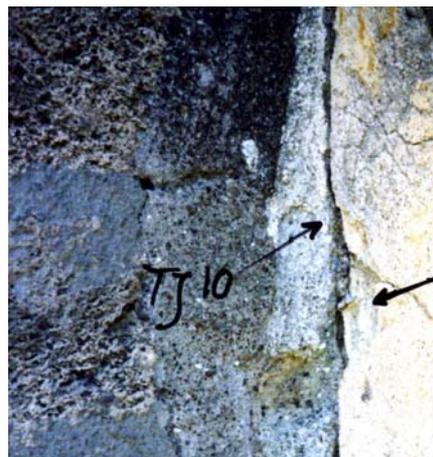
Sample no. 10

*Location* Cella, interior. South wall.  
At the pilaster at the SE side  
of the entrance.

*Decoration* Last decoration. This layer butts  
against the decoration on the wall.

*Layer* Plaster and white stucco.

*Photo* Film 18, photo 3.



*Plaster* Many colours, lots of yellow

*Binder* Grainy lime with lumps.

*Filler* *Compact:* very fine grains between some medium size and few large.  
Mainly black, beige and brown, rounded.

*Porous:* some orange-red and few small red.

*Crystals:* long black, uncoloured, grey and yellow crystals. A few olive  
green.

*Stucco*

*Lime* Yellowish lime.

*Filler* Large and small uncoloured and greyish crystals. Ca 8 mm.

*Plaster type* **TJ 10** (group E)

### Notes

This sample has two layers. The upper layer has very small grains. The pillar plaster butts against the wall decoration which belongs to an earlier period. The red paint layer is visible underneath the pillar plaster.

*Sample analysed at CNR-ICVBC.*

Placed in the same group are: TJ10, E4: group 3.3.

Correlation: TJ10, E4: group E.

## TEMPLE OF JUPITER

Sample no. 11

*Location* Cella, aedicule. East wall. At the SE side of the entrance (column blocked in the wall)

*Decoration* First phase plasterwork.

*Layer* Layer on the column.

Covered by no. 13.

*Photo* Film 17, photo 11. Film 18, photo 3.



*Plaster* Black and white, lots of crystals

*Binder* Much lime.

*Filler* *Compact*: small grains between large. Some very large grey and black. Few red-brown.

*Porous*: a few bright yellow

*Crystals*: many black crystals, uncoloured, grey and two green

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 3

### Notes

Similar to no. 1. Very similar to no. 3. It is often difficult to make a distinction between the early plasters in this area. All these samples have fine-grained or relatively fine-grained "black and white" plasters. What principally differentiates the plaster types is therefore the minor or major presence of long black crystals, and the quantity of red-brown grains.

## TEMPLE OF JUPITER

Sample no. 12

*Location* Cella, aedicule. Eastern side.  
Blocked niche?

*Decoration* First phase plasterwork.

*Layer* Layer in the niche.

*Photo* Film 17, photo 12.



*Plaster* Black and white, lots of crystals

*Binder*

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 3

*Notes*

Similar to no. 3.

Same as no 11.

## TEMPLE OF JUPITER

Sample no. 13

*Location* Cella, aedicule. Eastern side.  
Layer on the wall.

*Decoration*

*Layer* Upper layer, covering the  
blocked columns and a  
niche(?).

*Photo* Film 17, photo 13.



*Plaster* Black and warm colours, small grains

*Binder* Clean white lime with lots of large white lumps.

*Filler* *Compact:* small grains between large, mainly black. Few wine-red.  
*Porous:* few volcanic red. lots of black long crystals. Few bright yellow.  
*Crystals:* lots of crystals, many long black, some uncoloured, some grey crystals, some green.

*Stucco* c. 3 mm.

*Lime* "Orange" lime

*Filler* Lots of small orange-yellow grains, some black.

*Plaster type* TJ 8

### Notes

Same kind of plaster (and stucco) as no. 8.

## TEMPLE OF JUPITER

Sample no. 14

*Location* Cella. Column 1 from the SE,  
eastern side of the aedicule.

*Decoration* Stucco decoration on a column.

*Layer* Stucco and plaster.

*Photo* Film 16, photo 19.



*Plaster* Many colours, lots of yellow

*Binder* Much lime.

*Filler* *Compact:* very small grains.

*Porous:*

*Crystals:*

*Stucco* c. 5 mm.

*Lime* Creamy colour.

*Filler* Lots of large crystals, uncoloured and yellowish.

*Plaster type* TJ 10

### Notes

Very similar to no 10. Smaller grains and more red. Another sample from the column at the SE corner of the podium has the same kind of plaster.

## TEMPLE OF JUPITER

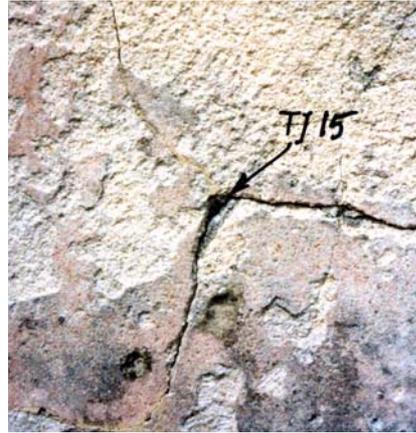
Sample no. 15

*Location* Cella. West wall, between columns 1-2 from NW.

*Decoration*

*Layer* Two layers.

*Photo* Film 18, photo 14.



*Plaster* Black and warm colours, small grains

*Binder* Lime with lumps. The plaster looks sandy.

*Filler* *Compact:* Small grains between large. Many brown, beige.

*Porous:* a few orange. some very large grey

*Crystals:* black crystals, grey, uncoloured, few olive.

*Stucco*

*Lime* White lime.

*Filler* Uncoloured small and medium size crystals. No very large.

*Plaster type* TJ 8

*Notes*

Same kind of plaster as nos. 8, 13.

New sample: 15 b, with plaster and stucco, taken in front of column no. 3 from NW.

Two layers. Very small grains.

## TEMPLE OF JUPITER

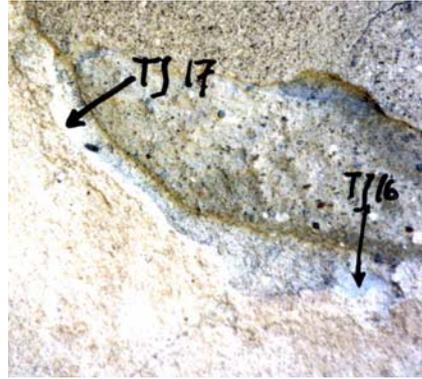
Sample no. 16

*Location* Cella, exterior. Front wall,  
west side. In the NW corner.

*Decoration* Last decoration.

*Layer* First layer (two layers).

*Photo* Film 17, photo 14.



*Plaster* Sandy plaster, red particles

*Binder*

*Filler* *Compact*: small grains between large.

*Porous*: some yellow and many red grains.

Crystals:

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 2

*Notes*

Same as TJ 2.

## TEMPLE OF JUPITER

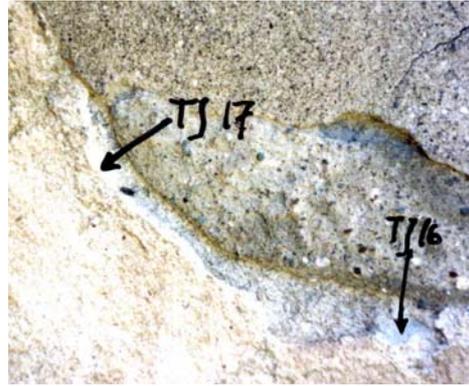
Sample no. 17

*Location* Cella, exterior. Front wall,  
west side. At the NW corner.

*Decoration* Last decoration.

*Layer* Upper layer with stucco.

*Photo* Film 17, photo 15.



*Plaster* Sandy plaster, red particles

*Binder*

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime* Yellowish lime.

*Filler* Large and small crystals, some black grains.

*Plaster type* TJ 2

*Notes*

Same kind of stucco as no 9.

Same as no 16.

## TEMPLE OF JUPITER

Sample no. 18

*Location* Podium. Crown moulding.  
Layer continuing behind the  
NW arch.

*Decoration* 1<sup>st</sup> style plasterwork.

*Layer* Layer with stucco.

*Photo* Film 18, photo 8.



*Plaster* Black and white, large-grained

*Binder*

*Filler*

*Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

Snow-white lime.

*Filler*

Small and medium sized uncoloured crystals.

*Plaster type* TJ 1

*Notes*

Dirty sample. Same as no. 1.

*Sample analysed at CNR.*

Placed in the same group are:

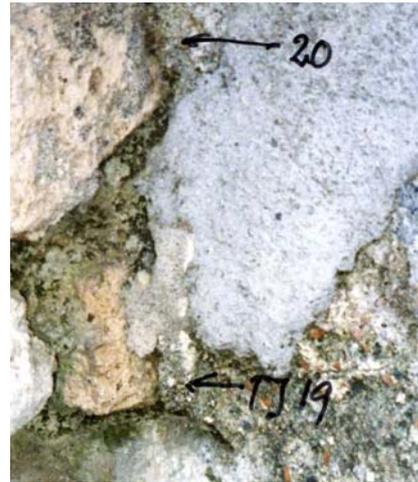
TJ18, TJ3, B2, TA2: group 1.4.

Correlation:

TJ18, TJ3, B2, TA2: group A.

## TEMPLE OF JUPITER

*Sample no.* 19  
*Location* Podium. At the crown moulding.  
*Decoration*  
*Layer* Upper decoration.  
Layer covering 18.  
*Photo* Film 18, photo 9.



*Plaster* Many colours, lots of yellow  
*Binder*  
*Filler* *Compact:*  
*Porous:*  
*Crystals:*  
*Stucco*  
*Lime*  
*Filler*

*Plaster type* TJ 10

Notes

## TEMPLE OF JUPITER

Sample no. 20

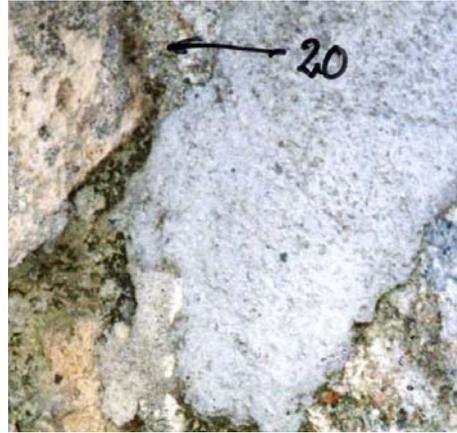
*Location* Podium. At the crown moulding.

*Decoration* Last decoration.

*Layer* Layer with decoration.

Covering no. 19.

*Photo* Film 18, photo 9.



*Plaster* Sandy plaster, red particles

*Binder*

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 2

*Notes*

No stucco on this sample.

Same as no. 2.

## TEMPLE OF JUPITER

Sample no. 21

*Location* Podium. At the middle,  
at the socle level.

*Decoration* 1<sup>st</sup> style plasterwork.

*Layer* Stucco profile.

*Photo* Film 18, photo 12, 13.



*Plaster* Black and white, large grains

*Binder*

*Filler* *Compact:*

*Porous:*

*Crystals:*

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 1

Notes

## TEMPLE OF JUPITER

Sample no. 22

*Location* Cella, aedicule. East room,  
at the entrance.

*Decoration*

*Layer* Plaster and decorated stucco.

*Photo* Film 20, photo 13.



*Plaster* Black and warm colours, small grains

*Binder*

*Filler* *Compact:* small grains

*Porous:*

*Crystals:* few green

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 8

*Notes*

Thin layers of plaster and stucco.

## TEMPLE OF JUPITER

Sample no. 23

*Location* Cella, interior. South wall,  
east side of the entrance.

*Decoration*

*Layer* Plaster and stucco.

*Photo* Film 19, photo 14, 15.



*Plaster* Black and warm colours, small grains

*Binder*

*Filler* *Compact*: many brown, red-brown.

*Porous*: few bright yellow. some very large porous grey/black.

*Crystals*: grey, uncoloured, olive green.

*Stucco*

*Lime*

*Filler*

*Plaster type* TJ 8

**Notes**

Same filler as no. 8. Same stucco as no. 8. Lumps of lime.

## TEMPLE OF JUPITER

Sample no. 24  
*Location* Podium. West side.  
*Decoration*  
*Layer* Fragment in the wall, plaster  
and stucco.  
*Photo* Film 20, photo 5, 6.



*Plaster* Black and white, lots of crystals  
*Binder* White lime.  
*Filler* *Compact:* very small grains between medium sized.  
*Porous:*  
*Crystals:* lots of crystals, many long black, small uncoloured, green, a few yellow.  
*Stucco*  
*Lime* Clean lime.  
*Filler* Very small crystals.

*Plaster type* TJ 3

### Notes

This plaster is of the same kind as used for the earliest decorations at the Temple of Apollo.

*Sample analysed at CNR-ICVBC.*

Placed in the same group are:

TJ24: group 1.1.

Correlation:

TJ24, TJ3, TA1, TA2, B2: group A.

ICVBC groups 1.1, 1.2, 1.3, 1.4 are parts of the larger group A.