TEMPLE OF JUPITER

Sample no. 1

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

Decoration
1st 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

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 1st style plasters and “sandy” as plasters of the 4th 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) 1st 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 1st style decoration.  
*Photo*  
Film 17, photo 0, 1, 2.

<table>
<thead>
<tr>
<th>Plaster</th>
<th>Sandy plaster, red particles</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Binder</em></td>
<td>“Sandy” lime with pores.</td>
</tr>
</tbody>
</table>
| *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. |

<table>
<thead>
<tr>
<th>Stucco</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Lime</em></td>
</tr>
<tr>
<td><em>Filler</em></td>
</tr>
</tbody>
</table>

*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  1st 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 1st 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 1st style plaster at the southern part of the podium reminds of a later period of the 1st 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 2nd style.
Having again studied the samples I return to my initial judgement; this is an early 1st 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.

<table>
<thead>
<tr>
<th>Plaster Type</th>
<th>Sandy plaster, red particles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Binder</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Filler</strong></td>
<td>Compact:</td>
</tr>
<tr>
<td></td>
<td>Porous:</td>
</tr>
<tr>
<td></td>
<td>Crystals:</td>
</tr>
</tbody>
</table>

**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 1st 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 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  Grainsy lime with lumps.
Filler  Compact: very fine grains between some medium size and few large.  Mainly black, beige and brown, rounded.
Porosity: 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
_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.

_Plasster 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.
TEMPEL OF JUPITER

<table>
<thead>
<tr>
<th>Sample no.</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location</strong></td>
<td>Cella, exterior. Front wall, west side. In the NW corner.</td>
</tr>
<tr>
<td><strong>Decoration</strong></td>
<td>Last decoration.</td>
</tr>
<tr>
<td><strong>Layer</strong></td>
<td>First layer (two layers).</td>
</tr>
<tr>
<td><strong>Photo</strong></td>
<td>Film 17, photo 14.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Plaster</strong></th>
<th>Sandy plaster, red particles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Binder</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Filler</strong></td>
<td><em>Compact:</em> small grains between large. <em>Porous:</em> some yellow and many red grains.</td>
</tr>
<tr>
<td><strong>Stucco</strong></td>
<td>Crystals:</td>
</tr>
<tr>
<td><strong>Lime</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Filler</strong></td>
<td></td>
</tr>
</tbody>
</table>

**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         Compact:
Filler          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.
Sample no. 18
Location Podium. Crown moulding. Layer continuing behind the NW arch.
Decoration 1st 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 Upper decoration.
Layer 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 1st style plasterwork.
Layer  Stucco profile.
Photo  Film 18, photo 12, 13.

Plaster  Black and white, large grains
Binder
Filler

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.

<table>
<thead>
<tr>
<th>Plaster</th>
<th>Black and warm colours, small grains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder</td>
<td>Compact: small grains</td>
</tr>
<tr>
<td>Filler</td>
<td>Porous:</td>
</tr>
<tr>
<td></td>
<td>Crystals: few green</td>
</tr>
</tbody>
</table>

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.
TEMPEL OF JUPITER

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster</td>
<td>Black and white, lots of crystals</td>
</tr>
<tr>
<td>Binder</td>
<td>White lime.</td>
</tr>
<tr>
<td>Filler</td>
<td>Compact: very small grains between medium sized. Porous: Crystals: lots of crystals, many long black, small uncoloured, green, a few yellow.</td>
</tr>
</tbody>
</table>

**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.