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TECHNICIAN TRAINING FOR THE CONSERVATION OF MOSAICS

PART 1
THE CONSERVATION OF IN SITU MOSAICS

Previous interventions



Livia Alberti, Ermanno Carbonara, Thomas Roby



Different types of previous interventions



PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
 - Edging repair
 - Filling of interstices between tesserae
 - Grouting of voids between preparatory layers

- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial; describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREPARED BY _____

DATE _____

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
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Firmano Carbonara 2011 / J. Paul Getty Trust

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
- Open shelter
- Closed shelter
- Wall stabilization
- Other: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREVIOUS INTERVENTIONS ON THE MOSAIC

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PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES



Thomas Roby 2001 © J. Paul Getty Trust

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 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



Ermanno Carbonara 2008 © J. Paul Getty Trust



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PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

DATA FORM NO. 2 – PREVIOUS INTERVENTIONS

STUDY PHASE

MOSAIC ID _____/_____/_____/_____

PREVIOUS INTERVENTIONS ON THE MOSAIC

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- Reinforced concrete/cement support
 - Other type of support: _____
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 - Application of a surface product (resin, wax, etc.)
 - Other: _____
- Parts detached and stored elsewhere
- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



Fimanno Carbonara 2008 © J. Paul Getty Trust

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
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- Other: _____
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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- Lifting and relaying on a new support
- Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
- Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



With pieces of ancient brick



With pieces of modern brick

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
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- Other: _____
- Access barrier: _____

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 - Grouting of voids between preparatory layers

- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

Lifting and relaying on a new support Reinforced concrete/cement support
 Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



Sebastiaan Godts 2010 © J. Paul Getty Trust



Sebastiaan Godts 2010 © J. Paul Getty Trust

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- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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 - Edging repair
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 - Grouting of voids between preparatory layers

- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: *Aluminum honeycomb panel*

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



Thomas Roby 2011 © J. Paul Getty Trust



Thomas Roby 2004 © J. Paul Getty Trust

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
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- Closed shelter
- Other: _____
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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 - Other type of support: _____

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 - Chemical cleaning
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 - Application of a surface product (resin, wax, etc.)
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- Drainage
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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DATE _____



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- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
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PREVIOUS INTERVENTIONS AROUND THE MOSAIC

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- Other: _____
- Access barrier: _____

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PREPARED BY

DATE



Livia Alberti 2006 © J. Paul Getty Trust

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
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 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere
- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
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- Closed shelter
- Other: _____
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES



Ermanno Carbonara 2006 © J. Paul Getty Trust

MOSAIC ID _____/_____/_____/_____

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 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: Glue

- Parts detached and stored elsewhere
- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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Ermanno Carbonara © 2004 Ermanno Carbonara

MOSAIC ID _____/_____/_____/_____

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- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

Parts detached and stored elsewhere

Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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DATE



Sebastian Godts 2010 © J. Paul Getty Trust

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STUDY PHASE

MOSAIC ID _____/_____/_____/_____

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 - with pieces of stone, brick or other material inserted into the mortar
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- Reinforced concrete/cement support
 - Other type of support: _____
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- Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____
- Parts detached and stored elsewhere

- Reburial** (Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
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 - Edging repair
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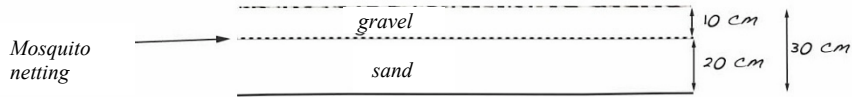
- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
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 - Application of a surface product (resin, wax, etc.)
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- Parts detached and stored elsewhere

Reburial (Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)



Wooden planks for containing reburial materials.



Livia Alberti 2011 © J. Paul Getty Trust

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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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Emmano Carbonara 2010 © J. Paul Getty Trust

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
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DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

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- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



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PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
- Open shelter
- Closed shelter
- Wall stabilization
- Other: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES



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 - Application of a surface product (resin, wax, etc.)
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Ermanno Carbonara © 2014 Ermanno Carbonara



Ermanno Carbonara © 2014 Ermanno Carbonara

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
- Open shelter
- Closed shelter
- Wall stabilization
- Other: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
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- Reintegration of lacunae
 - with tesserae
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 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial; describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



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PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: Rope
- Open shelter
- Closed shelter
- Wall stabilization
- Other: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
 - Edging repair
 - Filling of interstices between tesserae
 - Grouting of voids between preparatory layers

- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



Emmano Carbonara 2008 © J. Paul Getty Trust

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
- Open shelter
- Closed shelter
- Wall stabilization
- Other: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
 - Edging repair
 - Filling of interstices between tesserae
 - Grouting of voids between preparatory layers

- Reintegration of lacunae
 - with tesserae
 - with pieces of stone, brick or other material inserted into the mortar

- Lifting and relaying on a new support
 - Reinforced concrete/cement support
 - Other type of support: _____

- Surface treatment
 - Chemical cleaning
 - Mechanical abrasion
 - Application of a surface product (resin, wax, etc.)
 - Other: _____

- Parts detached and stored elsewhere

- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*



PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Removable cover
- Access barrier: _____
- Open shelter
- Closed shelter
- Wall stabilization
- Other: ***Raised walkway***

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

PREVIOUS INTERVENTIONS ON THE MOSAIC

- Mortar repairs
 - Infilling of lacunae
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- Reburial *(Draw a vertical section of the reburial: describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES



DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

*First: on discovery of the pavement by archaeologists in 1969.
 Second: in the 1980s
 Source: Mr. Hamza, site guard*

DATA FORM NO. 2 – PREVIOUS INTERVENTIONS

STUDY PHASE

MOSAIC ID _____ / _____ / _____ / _____

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- Drainage
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





PREPARED BY _____

DATE _____



LEGEND – PREVIOUS INTERVENTIONS MAP

MOSAIC ID _____ / _____ / _____ / _____




Mortar repairs

-  Infilling of lacunae
-  Edging repair
-  Outline of each infilling or edging mortar
-  Overlapping between mortar layers (new → old)
-  Filling of interstices between tesserae
- 





Reintegration of lacunae

-  Reintegration with tesserae
-  Reintegration with :

Detached mosaics

-  Outline of the support panels of a detached mosaic re-laid in situ
-  Location of the metal reinforcements of the support panels
-  Parts detached and stored elsewhere

Other types of interventions

-  Reburial outline
-  Drainage openings
- 
- 

PREPARED BY _____

DATE _____

CASE STUDY

Hergla, Tunisia

House “of the two peristyles”
ID: HE/H2P/25





ID: HE/H2P/25

TITLE: Previous Interventions Map
 DATE: June 2005
 Prepared by: Mohamed Said







Base made on: June 2005

Livia Alberti, Elsa Bouguignon, Thomas Roby 2008, 2011, 2013 © J. Paul Getty Trust and Institut National du Patrimoine de Tunisie



LEGEND – PREVIOUS INTERVENTIONS MAP

MOSAIC ID HE, HP2, 25 /




Mortar repairs

-  Infilling of lacunae
-  Edging repair
-  Outline of each infilling or edging mortar
-  Overlapping between mortar layers (new → old)
-  Filling of interstices between tesserae
- 





Reintegration of lacunae

-  Reintegration with tesserae
-  Reintegration with :

Detached mosaics

-  Outline of the support panels of a detached mosaic re-laid in situ
-  Location of the metal reinforcements of the support panels
-  Parts detached and stored elsewhere

Other types of interventions

-  Reburial outline
-  Drainage openings
- 
- 

PREPARED BY *Mohamed Said*

DATE *June 2005*



ID: HE/H2P/25

TITLE: Previous Interventions Map

DATE: June 2005







Prepared by: Mohamed Said

Base made on: June 2005



LEGEND – PREVIOUS INTERVENTIONS MAP

MOSAIC ID HE, HP2, 25 /




Mortar repairs

-  Infilling of lacunae
-  Edging repair
-  Outline of each infilling or edging mortar
-  Overlapping between mortar layers (new → old)
-  Filling of interstices between tesserae
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Reintegration of lacunae

-  Reintegration with tesserae
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Detached mosaics

-  Outline of the support panels of a detached mosaic re-laid in situ
-  Location of the metal reinforcements of the support panels
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Other types of interventions

-  Reburial outline
-  Drainage openings
- 
- 

PREPARED BY *Mohamed Said*

DATE

June 2005

Mortar characteristics



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Sebastiaan Godts 2010 © J. Paul Getty Trust



Sebastiaan Godts 2010 © J. Paul Getty Trust



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DATA FORM NO. 2 – PREVIOUS INTERVENTIONS

STUDY PHASE

MOSAIC ID HE/HP2/25/1

PREVIOUS INTERVENTIONS ON THE MOSAIC

Mortar repairs

- Infilling of lacunae
- Edging repair
- Filling of interstices between tesserae
- Grouting of voids between preparatory layers

Reintegration of lacunae

- with tesserae
- with pieces of stone, brick or other material inserted into the mortar

Lifting and relaying on a new support

- Reinforced concrete/cement support
- Other type of support: _____

Surface treatment

- Chemical cleaning
- Mechanical abrasion
- Application of a surface product (resin, wax, etc.)
- Other: _____

Parts detached and stored elsewhere

Reburial *(Draw a vertical section of the reburial; describe the fill materials and separation membranes used, provide the total thickness and the thickness of each layer)*

PREVIOUS INTERVENTIONS AROUND THE MOSAIC

- Drainage
- Open shelter
- Wall stabilization
- Removable cover
- Closed shelter
- Other: _____
- Access barrier: _____

DATES OF PREVIOUS INTERVENTIONS CARRIED OUT AND INFORMATION SOURCES

First: on discovery of the pavement by archaeologists in 1969.

Second: in the 1980s

Source: Mr. Hamza, site guard






PREPARED BY Mohamed Said

DATE June 2005



LEGEND – PREVIOUS INTERVENTIONS MAP

MOSAIC ID HE/HP2/25/1




Mortar repairs

-  Infilling of lacunae
-  Edging repair
-  Outline of each infilling or edging mortar
-  Overlapping between mortar layers (new → old)
-  Filling of interstices between tesserae



Reintegration of lacunae

-  Reintegration with tesserae
-  Reintegration with: _____

Detached mosaics

-  Outline of the support panels of a detached mosaic re-laid in situ
-  Location of the metal reinforcements of the support panels
-  Parts detached and stored elsewhere

Other types of interventions

-  Reburial outline
-  Drainage openings

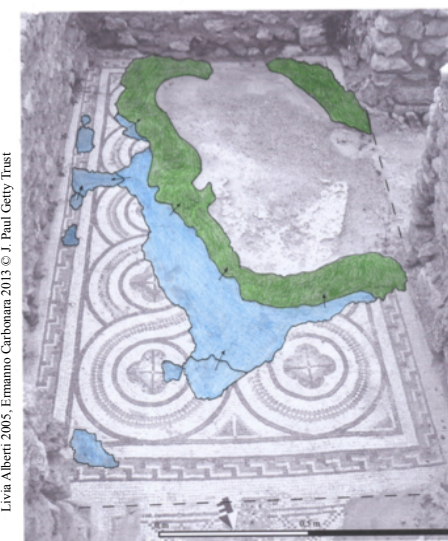
PREPARED BY Mohamed Said

DATE June 2005



ID: HE/H2P/25 TITLE: Previous Interventions Map
DATE: June 2005
Prepared by: Mohamed Said

Elsa Bouguignon 2005, Ermanno Carbonara 2013 © J. Paul Getty Trust



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MOSAIKON is a partnership of four institutions: the Getty Conservation Institute, the Getty Foundation, ICCROM, and ICCM.

The aims of the project are to strengthen the network of professionals concerned with the conservation, restoration, maintenance, and management of mosaic heritage in the southern and eastern Mediterranean region; provide training to a variety of individuals involved in mosaics conservation and, more generally, with the management of archaeological sites and museums with mosaics; work with national and international bodies to provide a more favorable legislative, regulatory, and economic environment for the conservation of mosaics in the Mediterranean; and promote the dissemination and exchange of information.

