TECHNICIAN TRAINING FOR THE CONSERVATION OF MOSAICS

PART 3
THE CONSERVATION OF ARCHITECTURAL REMAINS AND THEIR DECORATIVE SURFACES

Structures and decorative surfaces: previous interventions and their documentation

Livia Alberti, Ermanno Carbonara, Thomas Roby
Previous interventions on structures
Structural interventions

Masonry buttress
Structural interventions

Reinforcement with masonry
Structural interventions

Reinforcement with metal elements
Structural interventions

Reinforcement with metal elements
Structural interventions

Temporary metal structure buttress
Mimetic integration

Using the same materials of the ancient construction
Mimetic integration

Using the same materials of the ancient construction
Recognizable integration

Using different materials from the ancient construction
Recognizable integration

Using different materials from the ancient construction
Recognizable integration

Using the same materials of the ancient construction but placed below the original surface level
Recognizable integration

Using the same materials of the ancient construction but placed below the original surface level
Recognizable integration

Using different materials from the ancient construction and placed below the original surface level
Substitution of original elements

Replacement of ancient stones with new elements of the same material
Substitution of original elements

Replacement of ancient bricks with new elements of the same material
Protective interventions

Wall capping using a layer of mortar and small stones
Protective interventions

Wall capping using a layer of mortar
Stabilization interventions

Infilling of lacunae with stones and mortar
Stabilization interventions

Infilling of masonry joints with mortar
Previous interventions on decorative surfaces
Repairs with mortar

Edging repair
Repairs with mortar

Grouting voids between preparatory layers
Integration with mortar

Recognizable integration below the original surface level
Documentation of Previous Interventions
### Data Form – Conservation of Structures and Decorative Surfaces

**Structure/Decorative Surface ID:**

<table>
<thead>
<tr>
<th>Abbreviations</th>
<th>building</th>
<th>room</th>
<th>elevation</th>
<th>section</th>
</tr>
</thead>
</table>

This form should be accompanied by an overall photograph of the structure or surface decoration before and after conservation treatment, and by a plan of the building, indicating the location of the room. Mark also the location of the wall elevation if the object is a vertical surface.

### Part of the Structure
- Wall
- Vault
- Steps
- Cistern/ Basin
- Pavilion
- Other:

### Construction Materials
- Dry Stone
- Stone and lime mortar
- Stone and earthen mortar
- Brick
- Earth
- Other:

### Type of Surface Decoration
- Wall Plaster
- Painted Wall Plaster
- Crushed Ceramic Mor.
- Marble Plaque
- Stone Slabs
- Tile/Zellij
- Stucco/gyps. plaster
- Other:

### Previous Interventions
- Repairs of the structure
- Repairs of the surface decoration of wall or pavement
- Graphic documentation map attached

### Condition Assessment
- Loss of stones or mortar of the structure
- Cracks
- Detached stones of the structure
- Deformations (bulge or depression)
- Vegetation
- Loss of surface decoration of wall or pavement
- Micro-organisms
- Detachment of surface decoration of wall or pavement
- Incrustations
- Deteriorated surface decoration
- Efflorescences
- Deteriorated previous interventions

### Current Interventions
- Vegetation removal
- Cleaning
- Removal of modern repair mortars
- Graphic documentation map attached

### Mortar compositions:
- Repair of the structure with mortar and/or stones
- Resetting in place of detached stones
- Other interventions on the structure:

### Mortar compositions:
- Repair of the surface decoration with mortar (in-filling/edging repair)
- Grouting voids below the surface decoration
- Removal and resetting in place of parts of the surface decoration
- Reintegration of area of loss with:

### Prepared by

### Date

Data Form for the documentation of Previous Interventions
Legend for the graphic documentation of Previous Interventions

Legend for the graphic documentation of Previous Interventions

PREPARED BY

DATE

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Example of graphic documentation

**Previous Interventions Map**
- Not original parts of the structure
- Repairs/reintegrations of surface decoration
- Edge of each repair mortar
- Overlapping between mortars (new → old)

Volubilis, House of Orpheus
Example of graphic documentation

**Previous Interventions Map**

- **Green**: Not original parts of the structure
- **Red**: Repairs/reintegrations of surface decoration
- **Edge of each repair mortar**
- **Overlapping between mortars (new → old)**

**Condition Assessment Map**

- **● ● ● ● ●**
- **Efflorescence**

**Loss of stones or mortar of the structure**

**Cracks**

**Detached stone of the structure**

**Deformation (bulge or depression)**

**Vegetation**

**Detachment of the surface decoration of wall or pavement**

**Micro-organisms**

**Deteriorated surface decoration**

**Incrustations**

**Deteriorated previous interventions**

**Current Interventions Map**

- **Vegetation Removal**
- **Repair of the structure with mortar and/or stones**
- **Mortar composition:**
- **Resetting in place of detached stones**
- **Mortar composition:**
- **Repair of surface decoration with mortar (in filling/edging repair)**
- **Mortar composition:**
- **Grouting voids under the surface decoration or within the structure**
- **Mortar composition:**
- **Re-setting in place of detached elements of the surface decoration**
- **Mortar composition:**
- **Removal and resetting in place of parts of the surface decoration with facing**
- **Mortar composition:**
- **Reintegration of areas of loss with**

**Example of graphic documentation**

**TITLE:**

**DATE:**

**PREPARED BY:**

**BASE MADE ON: 03/2018**

**Documentation of Previous Interventions**
Documentation of Previous Interventions

**Example of graphic documentation**

**Previous Interventions Map**

- Not original parts of the structure
- Repairs/reintegrations of surface decoration

- Edge of each repair mortar
- Overlapping between mortars (new → old)

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**Not original parts of the structure**

**Repairs/reintegrations of surface decoration**

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**Condition Assessment Map**

- Edge of surface decoration of wall or pavement
- Efflorescence
- Loss of stones or mortar of the structure
- Cracks
- Detached stone of the structure
- Deformation (bulge or depression)
- Vegetation
- Detachment of the surface decoration of wall or pavement
- Micro-organisms
- Deteriorated surface decoration
- Incrustations
- Deteriorated previous interventions

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**Current Interventions Map**

- Vegetation Removal
- Repair of the structure with mortar and/or stones
- Mortar composition:
  - Resetting in place of detached stones
- Mortar composition:
  - Repair of surface decoration with mortar (in-filling/edging repair)
- Mortar composition:
  - Grouting voids under the surface decoration or within the structure
- Mortar composition:
  - Re-setting in place of detached elements of the surface decoration
- Mortar composition:
  - Removal and resetting in place of parts of the surface decoration with facing
- Mortar composition:
  - Reintegration of areas of loss with:

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**Title:** Previous Interventions Map

**Date:** 08/04/2018

**Prepared by:** Mohamed Zaki

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**Base Made On:** 03/2018
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.