CONSTGLASS

Table of results

1-Pilot object

Pilot object	**Canterbury Cathedral NXVII C1**	
Picture	 	**Identification of the panel:** NXVII C1 internal face in transmitted and reflected light **Treatment:** **Product:** The panel was used as a test panel for a pilot study on paint consolidation by the Fraunhofer Institut Silicatforschung. Three different consolidation materials have been used on separate glass pieces within the panel: SZA, Ormocer®/Paraloid® B72 1/1 and Paraloid® B72. Numbering system: B1, G1, G4 and W2 tested with SZA, B2, G2, and W1 tested with Ormercer® and Paraloid B72,® B3 and G3 tested with Paraloid® B72.
		

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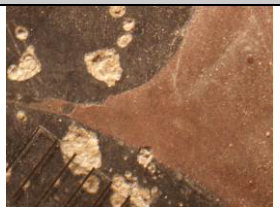
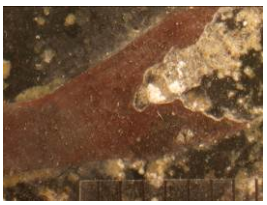
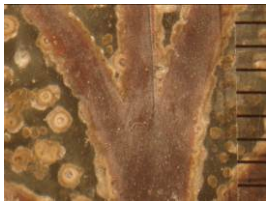
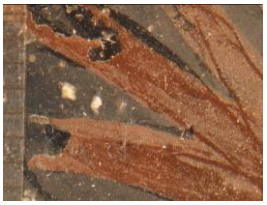
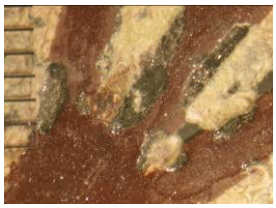
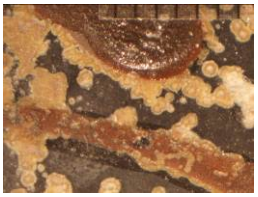
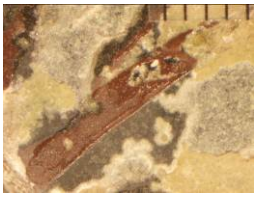
Table of results

2-Results

sample reference	CAN NXVII C1

Questions	Techniques	Answers
Morphology: *Has there been any deterioration or change to the consolidants since application in 1992?*	**Optical Microscope**	 **B1 SZA in reflected light**  **G1 Test SZA in reflected light**  **G4 SZA in reflected light**  **W2 SZA in reflected light** Test areas B1, G1, G4 there is no visible deterioration of the coatings. Test area W2 the coating appears to have developed a white opaque surface since application.  **B2 Orm/Par in reflected light**  **G2 Orm/Par in reflected light**  **W1 Orm/Par in reflected light**

		Test areas for Ormercer® and Paraloid® 1/1 show no visible deterioration of the coating on all test pieces.   **B3 Paraloid® B72 in reflected light** **B3 Paraloid® B72 in reflected** Test areas for Paraloid® B72 show no visible deterioration of the coating on all test pieces.
	SEM	
	Desktop tomography	
	Phase-contrast tomography on Synchrotron	
Chemical Composition	**SEM**	
Organic component composition	**FTIR**	
	RAMAN	
Microbiology	**Molecular biology ATP measurements**	
Reversibility	**Test studies Elimination**	The consolidants applied to the panel are all stable and no change or deterioration to the surfaces has occurred since application in 1992. Test area W2 using SZA is the only coating which has altered. The coating now appears to have developed a white opaque surface.
Re-treatability	**Test studies Re-treatability**	No need. No treatment recommended