

CONSTGLASS



BS31 Coating



Pilot objects	COLOGNE	COLOGNE
Bay (date)	s XXII, south side aisle,	N VI, choir clerestory,
	"Adoration of the Magi" (1846)	"Cycle of Kings" (ca.1300)
Exposure - protective	South	North
glazing Composition of the product	Methyl silicone resin (50% Toluene + 2%	Mothyl cilicana rocin (50% Toluona + 2%
Composition of the product	hardener TU 2); to prolong the setting time	Methyl silicone resin (50% Toluene + 2% hardener TU 2); to prolong the setting
	ethyl acetate was added	time ethyl acetate was added.
Application: date (age of	BS 31 was applicated in 1981; carried out by	Between 1978-1982 paint-layer
product); studio; protocol	an outside company (no protocol). It was used	consolidation with BS 31 took place; it
producty, studio, protocor	for the stabilization of damaged paint- layers	was used on internal faces for the
	and of fresh retouches. The application was	stabilization of damaged paint layers and
	either partial or all over the surface (internal +	fresh retouches; the treatment was
	external face).	carried out by the stained glass studio of
		Cologne Cathedral (protocol).
Morphology		
Direct observation	The BS 31-coatings seems to be in a good	The BS 31-coating of the paint partly
	condition. But several parts (thick application)	starts to delaminate. These areas look
	have a milky aspect, as if air bubbles were enclosed. Under the microscope drizzled	milky.
	areas are visible.	
SEM observation	for organic materials this analytic device is not	-
	suitable	
Desktop Xrays tomography	The compact glass, the silicone, the paint	
Booktop Arayo tomography	layer and the tape is visible	-
Synchrotron tomography	The compact glass with traces of metal, the	_
	silicone and the tape is very good visible	_
Chemical behaviour	(
FTIR	no reference spectrum of BS31 is available	-
	and the product is no available anymore	
Raman	no reference spectrum of BS31 is available	
	and the product is no available anymore	-
Mechanical behaviour	I	
	The mechanical behaviour seems to be stable	The mechanical behaviour seems to be
	in the thinner applied areas. But in the thicker	good and stabile.
	parts of the BS 31-coating, the behaviour is not satisfying. The BS 31 can flake off when	
	being touched with a scalpel.	
Contamination	being todened with a scalper.	
Fungi	-	-
Bacteriae	-	-
Active infestation		
Biological activity	-	-
Microbiological		
susceptibility		
	Not tested (BS 31 is out of market; no fresh material available)	Not tested (BS 31 is not on the market any more; no fresh material available)
Reversibility	material available)	any more, no neon material available)
Product 1	Ethanol (gel with 5% Klucel® M),	Ethanol (as gel)
Floudet	good results (tests were not carried out on the	good results, but remains in the paint
	investigated sample but on an comparable	(tests were not carried out on the
	segment!)	investigated sample but on an
	· ·	comparable segment!).



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Re-treatability		
Product 1	not intended	not intended
General observations		
	From the conservator's point of view there is no need to remove BS 31 at the moment,	
Recommendations		
Safety/healthy	BS 31 is out of market; no fresh material available	
Preparation		
Application		
Future conditions of		
conservation		