

FTB

LITHOS ARTE®

ART NR 10.101-10.260

MINERAL MORTAR FOR NATURAL STONE REPAIR, COMPOSED OF NATURAL STONE AND A MINERAL BINDING AGENT

DESCRIPTION

LITHOS ARTE® IS COMPOSED OF NATURAL STONE AND A MINERAL BINDING AGENT. THE BINDING AGENT (LITHOS ARTE® LIQUID) IS AN INORGANIC COMPLEX, WHICH IS OBTAINED DURING THE PROCESS OF MIXING WITH THE BASIC POWDER MASS (LITHOS ARTE® POWDER)

APPLICATION

LITHOS ARTE® IS USED FOR :

1. RESTORATION OF NATURAL STONES (LIKE LIME STONE, SAND STONE, ETC).
2. RESTORATION OF BRICKS AND TERRA COTTA.

IN BOTH CASES LITHOS ARTE® IS USED FOR: REPAIRS OF FLAT OR PROFILED WORK, ORNAMENTS AND STATUES OR THE CASTING OF REPLICAS.

SPECIFIC CHARACTERISTICS

1. EASY TREATMENT:

A REPAIR WITH LITHOS ARTE® CAN BE DONE IN ONLY ONE TIME. VERY COMPLICATED FORMS AND PROFILES CAN BE REPAIRED VERY EASILY, WHILE THE MORTAR IS HARDENING VERY FAST. BECAUSE OF THIS FACT, IT IS POSSIBLE TO PUT, WITHOUT INTERRUPTION, THICK LAYERS, EVEN ABOVE THE HEAD. THE COLOUR OF THE DRY LITHOS ARTE® POWDER CAN BE CHANGED EASILY BY MIXING IT WITH ANOTHER LITHOS ARTE® POWDER HAVING A DIFFERENT COLOUR.

IT IS NOT NECESSARY TO HAVE A PROTECTION AGAINST SUN AND WIND.

SHRINK-FREE HARDENING IN CONTRAST TO HYDRAULIC SYSTEMS (CEMENT, LIME).

VERY GOOD ADHESION TO THE STONE WHICH REMAINS TENSION FREE.

AFTER COMPLETE HARDENING THE SURFACE CAN BE TREATED AS THE ORIGINAL NATURAL STONE (GRANULATE, HEW OR RIDGE).

2. THE TEXTURE AND COLOUR OF THE ORIGINAL STONE SURFACE CAN BE PERFECTLY IMITATED.

3. THE WATER HOUSEHOLD OF THE LITHOS ARTE® RESTORATION MORTAR IS IN ACCORDANCE WITH THE ORIGINAL STONE.
4. THE AGEING OF THE REPAIR IS THE SAME AS NATURAL STONE (NO TURNING GREY OR YELLOW).
5. FROST RESISTANCE.

THESE UNIQUE PROPERTIES ENABLE TO RESTORE WITH LITHOS ARTE® HISTORICAL FRONTAGES AND MONUMENTS ON THE MOST TRUE TO NATURE WAY.

TEST REPORTS

TEST REPORT IRPA (INSTITUT ROYAL DU PATRIMOINE ARTISTIQUE) DI 97/6228 AVAILABLE UPON REQUEST.

TEST REPORT KU-LEUVEN-LABORATORIUM REYNTJENS (UNIVERSITE DE LOUVAIN LABO DU PROF. REYNTJENS) PV : R/28486/96 AVAILABLE UPON REQUEST.

METHOD OF WORK

1. PREPARATION OF THE SURFACE :

THE SURFACE NEEDS TO BE ENDURING, IT MUST BE THOROUGHLY INSPECTED IN ORDER TO DETECT CRACKS OR LOOSE PARTS. EROSION CRUSTS AND IMPURITIES HAVE TO BE REMOVED. THE DAMAGE SURFACE HAS TO BE EXCAVATED AND MADE ROUGH TO AT 1 CM BELOW THE SURROUNDING SURFACE. ONLY ON DRY STONES, THAT ARE FREE OF DUST, PAINT OR STILL ACTIVE SILICON TREATMENT, CAN BE WORKED.

LITHOS ARTE® MAY NOT BE APPLIED ON FROZEN SURFACES. IN THE SURFACE TO REPAIR ARE MADE HOLES OF ± 5 MM DIAMETER.

PLACE STAINLESS STEEL ANCHOR STICKS, OR STAINLESS STEEL OR BRASS SCREWS IN THE DRILL HOLES. IF THE REPAIR WORK IS EXTENSIVE OR IN CASE THE PARTS THAT HAVE TO BE REPAIRED ARE STRONGLY PROTRUDING OR LEANING OVER, CONNECT THE ANCHORING SPOTS WITH BRASS WIRE (NEVER USE STEEL OR IRON).

NOTE: ALL THE RESTS OF IRON P. EX. CLAMPS, SCREWS OR OTHER ANCHORING ITEMS MUST BE REMOVED FROM THE SURFACE TO REPAIR.

2. IMPREGNATION OF THE SURFACE :

APPLY THE LITHOS ARTE® LIQUID WITH A BRUSH TO THE SURFACE THAT WILL BE REPAIRED. THIS TREATMENT INSURES THE ETCHING OF THE SURFACE.

3. MAKING OF THE LITHOS ARTE® MORTAR :

THE LITHOS ARTE® POWDER NEEDS TO BE THOROUGHLY MIXED WITH THE LITHOS ARTE® LIQUID UNTIL A SEMI-LIQUID SUBSTANCE IS FORMED. THE POWDER-LIQUID RATIO SHOULD BE TWO AND A HALF PARTS OF POWDER TO ONE PART OF LIQUID.

NOTE : DUE TO THE SHORT TIME IN WHICH THE MORTAR BECOMES SOLID, WE RECOMMEND TO MIX SMALL QUANTITIES.

4. APPLICATION OF THE LITHOS ARTE® MORTAR :

APPLY THE MORTAR WITH A TROWEL OR A SPATULA TO THE SURFACE THAT IS TREATED WITH THE LIQUID, TO ONE OR TWO MM ABOVE THE PROFILE TO REPAIR. AFTER 10 TO 15 MINUTES(DEPENDING ON THE AMBIENT TEMPERATURE) THE MORTAR IS SUFFICIENTLY HARDENED AND THE SURFACE CAN BE LEVELLED BY MEANS OF A SPATULA UNTIL THE DESIRED PROFILE IS OBTAINED.
PROTECTION AGAINST SUN AND WIND IS NOT NECESSARY.

5. COMPLETION :

THE COLOUR OF THE REPAIRED SURFACE BECOMES DARKER WHILE THE MORTAR IS CURING (COMPLETE HARDENING: MIN. 24 HOURS DEPENDING ON THE AMBIENT TEMPERATURE). THIS IS DUE TO THE POLYMERISATION REACTION

THEREFORE IT IS NECESSARY TO SCOUR THE REPAIRED SURFACE AFTERWARDS IN ORDER TO OBTAIN EXACTLY THE SAME SURFACE GRIT AND COLOUR OF THE ORIGINAL STONE. AFTER THE COMPLETE HARDENING IT IS POSSIBLE TO GRANULATE, HEW OR RIDGE THE SURFACE.

A WATER REPELLENT TREATMENT IS POSSIBLE AFTER THE COMPLETE HARDENING.

CLEANING OF THE MATERIAL

CLEAN THE MATERIAL WITH WATER BEFORE THE MORTAR IS FULLY CURED.

CHARACTERISTICS

DENSITY:		2,15 - 2,20 kg/dm ³
AVERAGE DIAMETER OF THE PORES:		0,49 μm
DIVISION OF THE PORES:		0,02 - 300 μm
ABSORPTION COEFFICIENT OF WATER:		0,7 - 0,9
ADHERENCE:		0,6 N/mm ²
GC FACTOR (NBN 27-010):		≤ -2,5 CLASS STRENGTH 5
SPEED OF DRYING:		159 g/m ² /HOUR
THERMAL DILATION COEFFICIENT:		8,30 - 8,80 μm/m°C
COMPRESSION:	FINE GRAIN	6,5 ± 0,5 N/mm ²
	LARGE GRAIN:	12,5 ± 0,5 N/mm ²
FLEXURAL STRENGTH:		3,5 ± 0,5 N/mm ²
E DYNAMIC MODULE:	FINE GRAIN:	15.000 N/mm ²
	LARGE GRAIN:	24.000 N/mm ²
E STATIC MODULE:	FINE GRAIN:	8.500 N/mm ²
	LARGE GRAIN:	16.000 N/mm ²
SHRINKAGE:		< 0.001 %
POT-LIFE:		± 5 MINUTES
HARDENING:	WORKABLE DURING:	± 15 MINUTES
	HARD AFTER:	± 2 HOURS
	HEWING POSSIBLE AFTER:	24 HOURS

CONSUMPTION

APPROX. 2,20 KG/DM³

COLORS

CODE	TYPE	CODE	TYPE
A1	CHAUVIGNY	A50	BALEGEM
A20	EUVILLE LIGHT	A51	BALEGEM GRAY
A21	EUVILLE STANDARD	A52	BALEGEM YELLOW
A22	EUVILLE DARK	A6	MERGEL
A30	SAVONNIÈRE LIGHT	A70	BLAUWE STEEN LIGHT
A31	SAVONNIÈRE DARK	A71	BLAUWE STEEN DARK
A4	GOBERTANGE	A8	MASSANGIS

OTHER TYPES OF LITHOS ARTE® (E.G. BRAUVILLIERS, ST. MAXIME, TERVOUX, ETC.) ARE AVAILABLE. THEY ARE PRODUCED BASED ON THE ORIGINAL MATERIAL.

CONDITIONING

LITHOS ARTE® POWDER:	20 KG	(ART.NR. 10.101)
LITHOS ARTE® LIQUID:	14 KG	(ART.NR. 10.260)

STORAGE TIME

2 YEARS IN A DRY ENVIRONMENT.

PRECAUTIONS

LITHOS ARTE® LIQUID IS IRRITATING.

IF THE LIQUID COMES IN CONTACT WITH THE EYES OR THE MUCOUS MEMBRANES, THEY HAVE TO BE CLEANED IMMEDIATELY WITH PLENTY OF CLEAR WATER

LITHOS ARTE® IS NOT TOXIC.

APPLICABLE MORTAR CAN IN CASE OF LONG CONTACT WITH THE SKIN CAUSE IRRITATION.

EPILOGUE

OUR TECHNICAL INFORMATION IS BASED ON OUR OWN EXPERIENCE AND IS GIVEN IN GOOD FAITH. WE GUARANTEE A CONSTANT QUALITY OF OUR PRODUCTS, BUT WE CANNOT ACCEPT ANY RESPONSIBILITY CONCERNING THEIR APPLICATION.