

**Michele Gelfman,
President**

CERTIFICATE OF APPROPRIATENESS

ADMINISTRATIVE APPROVAL

The Historic Preservation Commission of South Bend and St. Joseph County has approved the following work:
Brick repair and replacement, grinding and pointing. Clean and seal all masonry.

Brick replacement on upper building will be reddish brick salvaged from parapet.

Brick replacement on lower building will be yellow brick salvaged from Notre Dame (Corby Hall).

Brick mortar will be Buzzi Portland Lime Cement in Solomon colors added to mix to match building.

Stone mortar will be Jahn M70 to match building.

HISTORIC PRESERVATION COMMISSION OF SOUTH BEND AND ST. JOSEPH COUNTY

115 LAFAYETTE BLVD
South Bend, IN, 46601
Application No. 2019-0225

in the County of St. Joseph; State of Indiana; which is:

- Located in a Local Historic District
 A Local Historic Landmark

and found this application to be appropriate according to the Standards pertaining to Local Historic Landmarks and/or Local Historic Districts. Regulations pertaining to the Historic Preservation Commission are found in Chapter 21 (Zoning), South Bend Municipal Code and Chapter 26 of the St. Joseph County Code.

The issuance of this certificate does NOT in any manner, release the recipient from the responsibility of complying with the requirements of the zoning ordinances, building codes, safety codes, ADA or other requirements of the City of South Bend, the County of St. Joseph, the State of Indiana, or the United States Federal Government.

This certificate is good for one year from the date of issuance and is effective from the date entered herein. Plans are on file and open for public inspection at the office of the Historic Preservation Commission of South Bend and St. Joseph County, 227 West Jefferson Blvd., Suite 1400 S, South Bend, Indiana, during normal business hours.

THIS CERTIFICATE IS NOT TRANSFERABLE

NAME OF APPLICANT: **C&S Masonry Restoration LLC**

DATE CERTIFICATE
TAKES FORCE: **2/25/2019**

DATE CERTIFICATE
EXPIRES: **2/25/2020**

CERTIFICATE ISSUED BY:
**Elicia Feasel
Historic Preservation Administrator**

POST IN A CONSPICUOUS PLACE ON THE STREET SIDE
OF THE PROJECT UNTIL COMPLETION OF ALL WORK.



ELICIA FEASEL

**Historic Preservation
Administrator**

Phone: (574) 235-9371
E-mail: SBSJCHPC@southbendin.gov



HISTORIC PRESERVATION COMMISSION OF SOUTH BEND AND ST. JOSEPH COUNTY

County—City Building, South Bend, IN 46601
http://www.southbendin.gov/government/departments/community-investment
Phone: 574/235.9371 Fax: 574/235.9021
Email: hpcbsjc@southbendin.gov

A Certified Local Government of the National Park Service

Elicia Feasel, Historic Preservation
Administrator

APPLICATION FOR A — CERTIFICATE OF APPROPRIATENESS

OFFICE USE ONLY >>>>>> DO NOT COMPLETE ANY ENTRIES CONTAINED IN THIS BOX <<<<<<< *OFFICE USE ONLY*

Date Received: _____ Application Number: _____

Past Reviews: YES (Date of Last Review) _____ NO

Staff Approval authorized by: _____ Title: _____

Historic Preservation Commission Review Date: _____

Local Landmark Local Historic District (Name) _____

National Landmark National Register District (Name) _____

Certificate Of Appropriateness: Denied Tabled Sent To Committee Approved and issued: _____

Address of Property for proposed work: 115 S. Lafayette Blvd. South Bend, IN 46601
(Street Number—Street Name—City—Zip)

Name of Property Owner(s): City of South Bend Phone #: _____

Address of Property Owner(s): Same as above
(Street Number—Street Name—City—Zip)

Name of Contractor(s): C&S Masonry Restoration LLC Phone #: 574-208-8484

Contractor Company Name: C&S Masonry / Steve Fields

Address of Contractor Company: 3725 N. Foundation Ct. Suite AB South Bend IN 46628
(Street Number—Street Name—City—Zip)

Current Use of Building: Vacant
(Single Family—Multi-Family—Commercial—Government—Industrial—Vacant—etc.)

Type of Building Construction: Brick & Limestone
(Wood Frame—Brick—Stone—Steel—Concrete—Other)

Proposed Work: (more than one box may be checked) Landscape New Replacement (not in-kind) Demolition

Description of Proposed Work: Brick replacement, grinding & pointing, Cleaning & sealing of all masonry

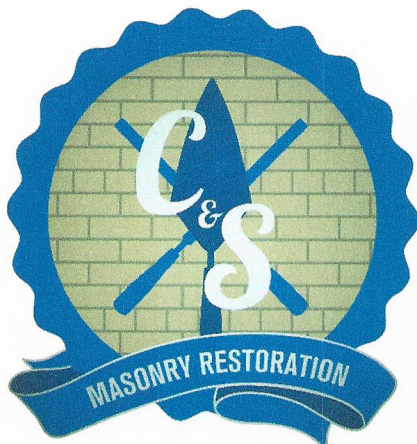
Owner e-mail: _____ and/or Contractor e-mail: stevecands@outlook.com

X _____ and/or X Steve Fields President
Signature of Owner Signature of Contractor

By signing this application I agree to abide by all local regulations related to project and to obtain a Building Department Permit, if applicable.

—APPLICATION REQUIREMENTS ARE LISTED ON REVERSE SIDE—

\$20 fee



Date: 2/13/2019

Dan Jones

County City Building
227 W. Jefferson Blvd
South Bend, IN 46601

Reference: Lafayette Building / Project #117-100R


C & S Masonry Restoration, LLC. Appreciates the opportunity to provide a quote for the above referenced project. The following information represents our scope of work and pricing.

REQUEST FOR CHANGE ORDER

- 1,500 BRICK ARE AVAILABLE FROM OWNERS SALVAGE AT NO COST TO C&S MASONRY (THEY ARE NOT A GOOD MATCH FOR THE REPAIRS AT THE BASE OF THE BUILDING) SEE PICTURES. THEY WILL BE NEEDED FOR REPAIR WORK NEAR THE TOP OF THE BUILDING
- C&S NEEDED TO SUPPLY ADDITION BRICK (2,550 PCS.) IN OUR QUOTE TO COMPLETE THE 600SF OF LISTED REPAIR. 1,500 SALVAGED FROM OWNER (FREE) + 2,550 PROVIDED FROM ROSE FUEL PER ADDENDUM #1 @ .85 PER PIECE = 2,167.50 TOTAL BRICK NEEDED FOR REPAIR 1,500 +2550 = 4050 BRICK
- THE SALVAGED BRICK FROM C&S WILL PROVIDE THE BEST POSSIBLE MATCH FOR THE BUILDING IN OUR OPINION. SEE PICTURES (THESE BRICK ARE OWNED BY THE UNIVERSITY OF NOTRE DAME) I HAVE CLEARED THE PURCHASE OF THESE BRICK WITH THEM

1,500 BRICK FROM OWNER STOCKPILE (FREE)	0.00	UNUSEABLE FOR REPAIR
2,550 BRICK IN MY BID @ .85 EACH =	2,167.50	ROSE BRICK PER ADDENDUM #1 UNUSEABLE
SALVAGED BRICK FROM C&S YARD 4050 BRICK @ 2.00 EA	8,100.00	TOTAL COST
C&S BRICK	8,100.00	
CREDIT	- 2,167.50	FROM MY BID
TOTAL	5,932.50	REQUESTED CHANGE ORDER FOR BETTER MATCHING BRICK

Please contact me at (574) 208-8484 or stevecands@outlook.com with any questions you may have.

Respectfully submitted,

Steve Fields
President

Acceptance of Proposal Date

Estimator/Project Manager X _____

A photograph of a brick wall. The bricks are arranged in a standard running bond pattern. The bricks vary in color, including shades of yellow, tan, and grey, and show signs of wear and age. In the center of the image, a brick has the words "LAFAYETTE BUILDING" written on it in blue marker. The word "LAFAYETTE" is on the top line and "BUILDING" is on the bottom line, both in all caps. The mortar joints between the bricks are visible and appear dark and slightly recessed.

LAFAYETTE
BUILDING



SALVAGED BRICK
IN OWNER STOCKPILE
1,500 PCS.

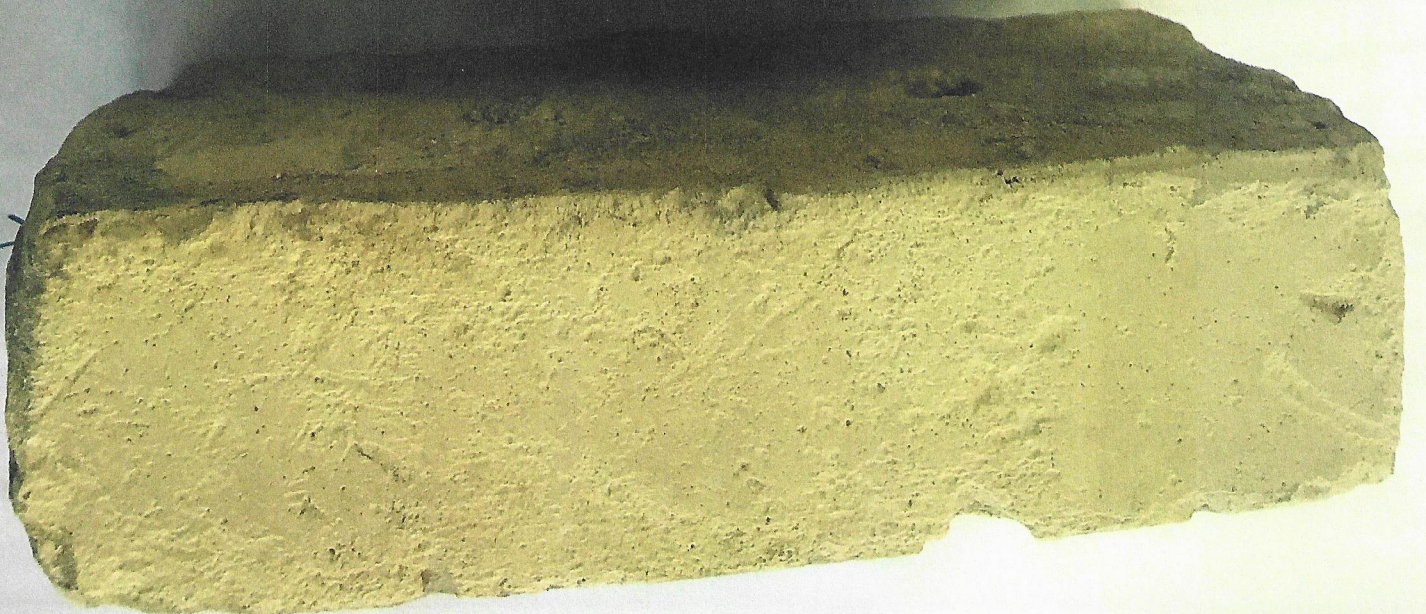
SAME BRICK AS
SPECIFIED IN ADDENDUM
#1 FROM ROSE BRICK



BRICK REMOVED
FROM THE SOUTH
ELEVATION OF THE
LAFAYETTE BUILDING.



SALVAGED BRICK
IN C&S MASONRY
YARD FOR SALE
ON THIS PROJECT.



1000



Buzzi Unicem USA

MILL CERTIFICATION REPORT TYPE N - PORTLAND LIME CEMENT

Certification date: 4/12/2017
Cement Type: Type N - Portland Lime Cement
Laboratory: Greencastle, IN Plant

We hereby certify that this Type N - Portland Lime cement complies with current ASTM C-1329 Specifications for Mortar Cement. The following data represents the average for the Buzzi Unicem USA cement that was produced in the month of February-17

ASTM STANDARD REQUIREMENTS		MILL CERTIFICATION VALUES	
SO ₃ - %	A	SO ₃ - %	2.60
PHYSICAL DATA C150			
<u>Fineness</u>			
Fineness- Blaine - m ² /kg	A	Blaine - m ² /kg	863
Fineness- #325 Sieve Retained (%)	max 24.0	#325 Sieve Retained (%)	18.6
Autoclave Expansion % (C151)	max 1.0	Autoclave Expansion % (C151)	0.05
<u>Time of Set</u>			
Gillmore Setting Time (minutes)	min 120 max 1000	Time of Set Setting Time (minutes)	Initial 120 Final 225
Air Content %	min 8 max 17	Air Content %	9.9
Water Retention %	min 70.0	Water Retention %	86.0
<u>Compressive Strength:</u>			
3 day - psi (MPa)	A	3 day - psi (MPa)	1370 (9.4)
7 day - psi (MPa)	min 500 (3.5)	7 day - psi (MPa)	2030 (14.0)
28 day - psi (MPa)	min 900 (6.2)	28 day - psi (MPa)	2250 (15.5)

ATTN:

Silo	Bill of Lading	Tons	Date

By Marcia L. Dyrud
Marcia L. Dyrud
Quality Control Manager

^A Not applicable.
^{**} Adjusted per ASTM C150 Annex A1.6
^{***} It is permissible to exceed the values for SO₃ content, provided that the Mortar Bar Expansion C1038 does not exceed 0.020 % at 14 days.

STATE OF INDIANA }
COUNTY OF PUTNAM }

Before me the undersigned, a Notary Public for Putnam County, State of Indiana personally appeared Marcia L. Dyrud and acknowledged the execution of the foregoing instrument this day 2017.

Stephanie A. Richardson, Notary Public
My commission expires March 10, 2024.

BUZZI UNICEM USA, Greencastle Plant
3301 S CR 150W, Greencastle, IN 46135, P.O. Box 482, Phone 765.653.9766

TECHNICAL SPECIFICATION DATA

BASIC USE: Solomon Colors, Inc., SGS, Concentrated Mortar Colors are pure mineral pigments designed to be used with all cementitious material whether it may be type N, S, M or O strength masonry cement or portland and lime mixtures. The pre-measured unit concept of SGS colors provides uniform color control with the cost saving flexibility of utilizing local masonry and/or portland and lime cements to achieve the proper strength and mix design for brick, block, stucco or stone unit construction. Since 18-20% of the visual surface of the average brick wall is mortar, the proper selection and use of an appropriate mortar color will dramatically enhance the visual impact and beauty of the masonry wall.

COMPOSITION & MATERIALS: SGS colors are products of pure natural and/or synthetic iron oxides which are finely milled (95 - 99% minus 325 mesh particle size) and blended under strict quality control procedures producing uniform and consistently strong tinting strength for maximum coloring power. Each SGS color exceeds the requirements set forth by ASTM C-979 "Pigments For Integrally Colored Concrete." SGS colors are inert, stable to atmospheric conditions, sunfast, weather resistant, alkali resistant, water insoluble, lime proof, non-bleeding natural and synthetic iron oxides free of deleterious fillers and extenders.

SPECIFICATION PROCEDURES: As detailed in the table, select the proper ASTM C-270 masonry mix design of Type N, S, M or O compressive strength for the masonry unit construction. Then, depending upon the masonry mix design, select the appropriate SGS color and specify the number of units to be added to the mortar mix.

PACKAGING: All SGS Concentrated Mortar Colors are packaged in sealed unit bags. The "A" Series contains 6, "H" Series 12 and "X" Series 18 color

unit bags per case. Each case contains enough color to lay approximately 900 ("A"), 1800 ("H") and 2700 ("X") standard size bricks respectively, using a 3/8" (9.5 mm) mortar joint. Each unit bag is clearly identified with color name, number, weight, plus complete mixing instructions.

COLOR RANGE: SGS offers a wide color spectrum with A, H and X Series Mortar Colors. This offers precise color tones that are needed to complement or accentuate the broad range of color shades found in brick, stone or colored block. Our Color Laboratory is available at no charge to match existing colored mortar, develop special color tones or to provide expert color assistance to solve your individual color needs.

MIXING PROCEDURES: Mortar shall be mixed in a power mixer for a minimum of five (5) minutes or until a uniform color is obtained. Any change in proportioning the amount of color to cement and/or the type of cement, sand or water content can result in a variation of color tone in the finished work. DO NOT load the mixer beyond its recommended capacity. Overloading will reduce mixing efficiency. Request SGS Spec-Data Masonry Mortar 04060 data sheets for complete mixing instructions.

AVAILABILITY: SGS colors are readily available from stocks carried by an extensive network of building material dealers throughout the United States and Canada. Solomon Colors Inc. dealers are also backed by reliable 24-hour factory services in processing and shipping of orders. Solomon Colors Inc. has local sales representatives covering each state within the continental United States. For names of local dealers, distributors and sales representatives, contact Solomon Colors Inc. office in Springfield, IL at (217) 522-3112 or (800)624-0261.

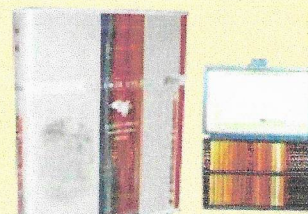
COST: Retail costs for SGS colors are established by stocking or distributing building material dealers. Costs are influenced by the individual color and color shade desired.

LIMIT OF WARRANTY & LIABILITY: Solomon Colors, Inc. warrants their product conforms to the description and standards stated on the product packaging and specific product literature. If properly mixed and applied, Solomon Colors Inc. warrants the Concentrated Mortar Color to be uniform, lime proof and sunfast. The exclusive remedy of the user or buyer and the limit of liability of this company shall be the purchase price paid by the user or buyer for the quantity of the SGS product involved.

MASONRY CLEANING: In the event cleaning is required to remove masonry stains and efflorescence, the cleaning operation should be undertaken after the colored mortar has sufficiently cured, generally 7-14 days after the masonry installation. Avoid using hydrochloric (muriatic) acid. Use a commercially prepared "proprietary masonry cleaner" following the directions for the weakest solution recommended by the manufacturer. Request SGS Spec Data Masonry Mortar 04060 data sheets for complete cleaning instructions.

SAMPLES: Color pigment samples are available for constructing job site mock-up panels. Contact your local Solomon Colors, Inc. building materials dealer, or Solomon Colors direct at: (217) 522-3112 or (800) 624-0261.

SGS MORTAR COLOR KIT & CATALOG: Samples of our standard mortar colors are available in convenient mortar color channels. Each channel is an actual representation of the color units mixed with either light gray prepared masonry cement or equivalent portland and lime mix plus a light tan builders sand and water. The shown Mortar Color Kit and Architectural Products Binder contains complete specification and technical information covering the complete line of SGS mortar and cement colors. Available upon request.



Mortar Color Kit

Architectural Products Binder

SGS SOLOMON COLORS, INC.

World Headquarters
4050 Color Plant Road
Springfield, IL 62702
Phone: 800-624-0261
Fax: 217-522-3145



West Coast Facility:
360 S Lilac Ave.
Rialto, CA 92376
Toll Free: 866-747-2656
Fax: 909-874-9444

BM100 06-12

ASTM C270 SPECIFICATION FOR MORTAR Unit Masonry C270 includes the following mortars:	Appropriate number of SGS Color Units to be added with mortar mix		
	"A" Series Color	"H" Series Color	"X" Series Color
Prepared masonry cements, ASTM C91, Types N, S, or M: One 70-80 lb (32-36 kg) bag masonry cement ASTM C91 Type 1: 3 cu ft (.08 m ³) sand, STM C144	One A Unit	One H Unit	One X Unit
Portland cement/lime mortars, Type N, 750 psi (5168 kPa): One 94 lb (43 kg) bag portland cement, ASTM C150; One 50 lb (23kg) bag hydrated lime, ASTM C207; 6 cu ft (.17 m ³) sand, ASTM C144	Two A Units	Two H Units	Two X Units
Portland cement/lime mortars, Type S, 1800 psi (12,400 kPa): Two 94 lb (43 kg) bags portland cement, ASTM C150; One 50 lb (23kg) bag hydrated lime, ASTM C207; 9 cu ft (.25 m ³) sand, ASTM C144; or	Three A Units	Three H Units	Three X Units
Portland cement/lime mortars, Type S, 1800 psi (12,400 kPa): One 94 lb (43 kg) bag portland cement, ASTM C150; Two 70 lb (32 kg) bags masonry cement Type 1, ASTM C91; 9 cu ft (.25 m ³) sand, ASTM C144	Three A Units	Three H Units	Three X Units
Portland cement/lime mortars, Type M, 2500 psi (17,225 kPa): Two 94 lb (43 kg) bags portland cement, ASTM C150; 25 lb (11 kg) hydrated lime, ASTM C207; 6 cu ft (.17 m ³) sand, ASTM C144; or	Three A Units	Three H Units	Three X Units
Portland cement/lime mortars, Type M, 2500 psi (17,225 kPa): One 94 lb (43 kg) bag portland cement, ASTM C150; One 70 lb (32 kg) bag masonry cement Type 1, ASTM C91; 6 cu ft (.17 m ³) sand, ASTM C144	Two A Units	Two H Units	Two X Units
Portland cement/lime mortars, Type O, 350 psi (2412 kPa): One 94 lb (43 kg) bag portland cement, ASTM C150; Two 50 lb (23 kg) bags hydrated lime, ASTM C207; 9 cu ft (.25 m ³) sand, ASTM C144	Three A Units	Three H Units	Three X Units

The 'USGBC Member Logo' is a trademark owned by the U.S. Green Building Council and is used by permission. The logo signifies only that Solomon Colors, Inc. is a USGBC member; USGBC does not review, certify, or endorse the products or services offered by its members.

M70 natural stone repair mortar



TECHNICAL CHARACTERISTICS

Natural Stone Repair Mortar	0012/100	0012/F/100	0016/300	0021/100	0022/200
Specific gravity (kg/dm ³)	1.5	1.4	1.5	1.7	1.6
Bending/Tensile strength (N/mm ²)	1.5 - 2.5	2.0 - 3.0	2.0 - 3.0	3.0 - 4.0	2.0 - 4.0
Compression strength (N/mm ²)	10.0 - 18.0	10.0 - 15.0	12.0 - 16.0	25.0 - 30.0	13.0 - 19.0
Dynamic E-modulus (KN/mm ²)	10.0 - 14.0	9.0 - 12.0	10.0 - 12.0	10.0 - 15.0	13.5 - 18.0
Water absorption (%)	12.0	15.0	15.0	7.6	9.1
Water mixing factor (ml/kg)	190 - 240	225 - 275	170 - 200	120 - 190	180 - 200
Volume mixed mortar (ml/kg)	700	775	800	650	850
Consumption (kg/dm ³)	1.4	1.3	1.3	1.5	1.2
Linear expansion coefficient (%)	0.01	0.01	0.01	0.01	0.01
Hydraulic expansion coefficient (%)	0.07	0.07	0.08	0.04	0.05
Water vapour permeability (my)	20.03	57.5	36	88.48	35.88
Capillary water absorption (w value)	6.84	24.89	12.22	2.2	4.21

Natural Stone Repair Mortar	0023/400	0024/500	0037/100	0039/100	0057/100
Specific gravity (kg/dm ³)	1.5	1.7	2.0	2.0	1.70
Bending/Tensile strength (N/mm ²)	1.5 - 2.0	3.0 - 6.0	3.0 - 7.0	4.0 - 7.0	3.0 - 4.0
Compression strength (N/mm ²)	8.0 - 11.0	35.0 - 40.0	30.0 - 40.0	35.0 - 40.0	25.0 - 30.0
Dynamic E-modulus (KN/mm ²)	10.0 - 12.0	15.0 - 22.0	15.0 - 21.0	16.5 - 20.0	20.0 - 22.0
Water absorption (%)	13.7	7.0	8.0	8.9	10.5
Water mixing factor (ml/kg)	200 - 240	170 - 200	180 - 210	270 - 300	190 - 220
Volume mixed mortar (ml/kg)	1000	800	600	680	700
Consumption (kg/dm ³)	1.0	1.3	1.7	1.5	1.4
Linear expansion coefficient (%)	0.01	0.01	0.01	0.01	0.01
Hydraulic expansion coefficient (%)	0.05	0.07	0.05	0.06	0.05
Water vapour permeability (my)	15.96	135.93	121.1	54.07	44.00
Capillary water absorption (w value)	19.41	1.96	2.02	7.54	1.8

Modifications and any printing errors excepted.

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M70 natural stone repair mortar



APPLICATION

The Jahn M70 Natural Stone Repair Mortar can be applied in one or several layers. In case application is done in more than one layer, the skins (binding agent skin) between the layers must be removed so as to avoid bonding problems. The mortar must be applied a few millimetres over the desired surface level. After setting of the mortar, the superfluous can be removed to the desired surface level. In case the mortar needs to be cut, modelled or ground, it must be applied at least 5 mm over the desired surface level. The Jahn M70 Natural Stone Repair Mortar for marlstone must be applied in one layer. Working in separate layers is not allowed, as this may result in the layer composition and the bonding that goes with it. In this case apply amply more mortar to the level of the mortar to be restored. Only after setting of the mortar can it be worked on by cutting or smoothed. During the first critical curing period (3-4 days) the Jahn M70 Natural Stone Repair Mortar must be protected against the weather influences. After the material has been applied, it must be moistened once a day for 3 days. The mortar will have hardened fully after approx. 28 days. Anchoring is not required as such. However, if the repairs involve larger dimensions and, for instance, is part of a cornice, ornament or statue, it is recommended to apply anchors. The anchors must be applied in those places where the weight of the repairs is larger than the area of adhesion can bear. The anchors may consist of stainless steel, bronze or glass fibre bars.

CLEANING

The tools used for applying the Jahn M70 Natural Stone Repair Mortar can be cleaned with clear water.

SUPPLY

The Jahn M70 Natural Stone Repair Mortar is supplied in a standard colour. Should you wish an adjusted colour, you are kindly referred to the Jahn S70 Natural Stone Repair Mortar, which material can also be adjusted physically.

PACKAGING AND STORAGE

The Jahn M70 Natural Stone Repair Mortar is supplied in 25 kg bags. The material can be stored for a maximum period of 12 months, provided the material is stored in sealed packing, in a dry, cool and frostproof place.

SAFETY

The Jahn M70 Natural Stone Repair Mortar is free from synthetic substances and aromatics. Still, it is recommend to wear gloves and protective glasses during application. In the event of contact of the material with skin or eyes, rinse with clear water. Keep the material away from children and animals. The material is not intended for consumption.

PO Box 151
3230 AD BRIELLE, The Netherlands
e-mail : info@jahn-international.com

Tel : +31 (0)181 - 32 44 62
Fax: +31 (0)181 - 32 22 95
internet : www.jahn.nl

M70 natural stone repair mortar



APPLICATION

The Jahn M70 Natural Stone Repair Mortar is a purely mineral based, 1-component mortar, which was especially developed for restoring natural stone elements such as ornaments, decorative frames and objects of art. The Jahn M70 Natural Stone Repair Mortar can be supplied in types sandstone (0012 medium and fine), limestone (0022), tuff (0016), marlstone (0023), freestone (0024 or 0037) and marble (0039). The mortar for staircases is coded 0057. Should you wish the mortar to be in a specific colour, you are kindly referred to the Jahn S70 Natural Stone Repair Mortar, which material can also be adjusted physically for its stability. These mortars are of pure origin and are free from any toxic substances.

SPECIAL PRODUCTS

Jahn M70 Easyspray

The *Jahn M70 Easyspray* helps to prevent quick drying of the mortar by spraying it immediately after application. The *Jahn M70 Easyspray* is a mineral liquid which is characterized by its property of retaining the water that is part of the freshly applied Jahn M70 restoration mortar for a while, so that the mortar cannot dry and burn. This liquid can be applied with the Jahn M70 Basic, Classic and Softline products, but not with the Jahn K-products.

The *Jahn M70 "TS"* (stands for Time Saving) can be obtained in types Basic, Classic and Softline. This mortar is pre-programmed in such a way that it requires little aftercare, i.e. no maintenance or moistening is required after application, since the mortar is temporarily protected against drying too quickly.

The *Jahn M10 Stabilizer* has proved to be suitable for creating a durable bond between the Jahn M and S-products and mineral substrates. The material can be used for the repair of concrete, natural stone and plaster. The Jahn M10 Stabilizer is a co-polymer dispersion, consisting of various film-forming monomers.

PROPERTIES Jahn M70 Natural Stone Repair Mortar

Mineral based, environmentally friendly, highly moisture, frost and salt resistant as well as salt and moisture regulating. Non-shrinking.

SUITABLE SUBSTRATES

The Jahn M70 Natural Stone Repair Mortar can be applied on all mineral, stony, absorbing and load-bearing substrates. The substrate must be free from dust, dirt and other contaminations.

TEMPERATURE

The Jahn M70 Natural Stone Repair Mortar may not be applied in temperatures below 5°C (41°F).

PREPARATION

In order to achieve a proper bonding with the substrate, it should be cut out roughly, for instance with a toothed chisel, until the stable, healthy substrate is reached. The cutting should result in a square connection between the parts to be repaired and the part of the 'healthy' substrate. The layer thickness of the mortar to be applied may vary from 0 to several centimetres.

After that the substrate must be made dust-free and pre-moistened adequately, so that no mixing water is extracted from the mortar. The degree of moistening is highly dependent on the type of natural stone and the surrounding temperature. Please take care that the substrate is not saturated with water, as this leads to the formation of a water film.

PREPARING THE MORTAR

The Jahn M70 Natural Stone Repair Mortar is supplied ready-for-use. The mortar must be mixed in a suitable tub.

PO Box 151
3230 AD BRIELLE, The Netherlands
e-mail : info@jahn-international.com

Tel : +31 (0)181 - 32 44 62
Fax: +31 (0)181 - 32 22 95
internet : www.jahn.nl