

TRANSMITTAL

TO: Cornerstone Construction, Inc.
P.O. Box 431
Defiance, Ohio 43512

DATE: Nov. 22, 1985
ROBERT M. O'SHEA, P.E.
CONSULTING ENGINEER
914 N. SUMMIT ST.
TOLEDO, OHIO 43604
(419) 241-5119

Attention: Mr. John Rosebrock

PROJECT: Napoleon Fire Station

Enclosed Herewith Delivered

NO. COPIES	DWG. NO.	DESCRIPTION
3	Brochure	Epoxy for filling cracks & banding ties - Sika
3	SK-4	Alternate procedure for installing tie using Sikendur-31 11/22/85

- Approved
- Approved as Noted
- Correct & Resubmit
- Not Approved
- For Approval
- For Information
- Sign & Return
- Sign & Forward
- Your Copy

REMARKS: cc City of Napoleon

By Paul F. Laubenthal



TO: Bob O'SHEA / PAUL LAUBENTHAL
RE: NAPOLEON FIRE STATION - STRUCT. RENOV.
FROM: JOHN ROSEBROCK

SIKADUR 31

- 1.) WILL BE USED IN CRACKS $\frac{1}{16}$ " OR WIDER
- 2.) IS A GEL FORM
- 3.) TO BE SQUEEZED OR TUCKED INTO PLACE
- 4.) 2 COMPONENT
- 5.) WILL BE USED AT STAINLESS DOWELS

- ~~A.) CLEAN HOLES~~
- ~~B.) DAB END OF DOWEL AND INSERT~~
- ~~C.) SQUEESE DAB OVER ENTRY HOLE~~
- ~~D.) SEAL HOLE W/ MORTAR~~

See Sketch
SK-4

SIKADUR 32

- 1.) WILL BE USED IN CRACKS $\frac{1}{16}$ " OR LESS
- 2.) IS A CREME FORM
- 3.) TO BE SQUEEZED INTO CRACKS
- 4.) 2 COMPONENT
- 5.) CAN BE USED IN CONTACT WITH SIKADUR 31

JOHN ROSEBROCK

Approved as noted
O'Shea Engr.
P.F., I. 11/22/85

Sikadur 31 Hi-Mod Gel



PATRICK F. O'BRIEN SIKA CORP. 072
29200 Southfield Rd., Suite 100A
SOUTHFIELD, MI 48076
(313) 552-1012

Technical Data

Description:

Sikadur 31, Hi-Mod Gel, is a high-solids, 2-component, epoxy-resin system. It is a unique, high-modulus, moisture-insensitive, structural adhesive for vertical and overhead bonding and embedment. It cures under dry, can't-dry, and saturated surface dry conditions.

Meets ASTM C-881.

Where To Use:

High-modulus, high-strength, paste adhesive for vertical and overhead bonding and grouting.

Use also for bolt embedment.

Advantages:

Gelled adhesive for 'can't-dry' surfaces — Thick consistency of Sikadur 31, Hi-Mod Gel, makes it an efficient adhesive to bond overhead or vertical surfaces whether they are dry, damp, or saturated surface dry — concrete, steel, wood, stone, brick, and many other structural materials.

Grouting mortar — Mixed with oven-dry aggregate, Sikadur 31, Gel, produces workable epoxy mortar for overhead and vertical grouting.

Packaging:

9-gallon, 3-gallon, and 12-fl-oz units, 12/case

Coverage:

Mortar — 1 gal of Sikadur 31 Hi-Mod Gel, mixed with up to 1 part by loose volume of Colma Quartzite Aggregate, will yield up to 358 cu in. of epoxy mortar.

Neat — 1 gal of neat Sikadur 31 Hi-Mod Gel yields 231 cu in. of epoxy.

Note: Coverage will vary with temperatures, substrate, substrate condition, environment, and application technique.

STAINLESS STEEL PIN GROUT

1/8" OR MORE CRACKS
& DOWEL HOLES

APPROVED AS NOTED
SUBJECT TO CONTRACT REQUIREMENTS

DATE: 11/19/85

BY: KAN

CORNERSTONE CONSTRUCTION, INC.

GEL TYPE

Sikadur 32 Hi-Mod

High-modulus, high strength,
epoxing bonding/grouting system

Technical Data



PATRICK F. O'BRIEN SIKA CORP.
29200 Southfield Rd., Suite 100A
SOUTHFIELD, MI 48076
(313) 552-1012



Description: Dual-purpose, 2-component, moisture-insensitive epoxy adhesive.

Where To Use: Use neat to bond plastic concrete to hardened concrete.
Mix with aggregate to prepare a grout to anchor bolts, seat base plates.

Advantages: Super-strength bonding/grouting system
Insensitive to moisture before, during, and after cure
Excellent adhesion to most structural materials
Easy-to-mix 1:1 ratio between components
Easy-to-use for bonding/grouting applications
Free of service-inhibiting polysulfides
Fast initial set, rapid gain to ultimate strengths

Yield: 1 gal covers approximately 80 sq ft on smooth surface.
1 gal mixed with 1½ parts aggregate yields 420 cu in. of grout.

Packaging: 10-, 4-gal pails; 2, 1-gal units, 6/case; 1-qt units, 12/case.

POSS. INJECTIONS

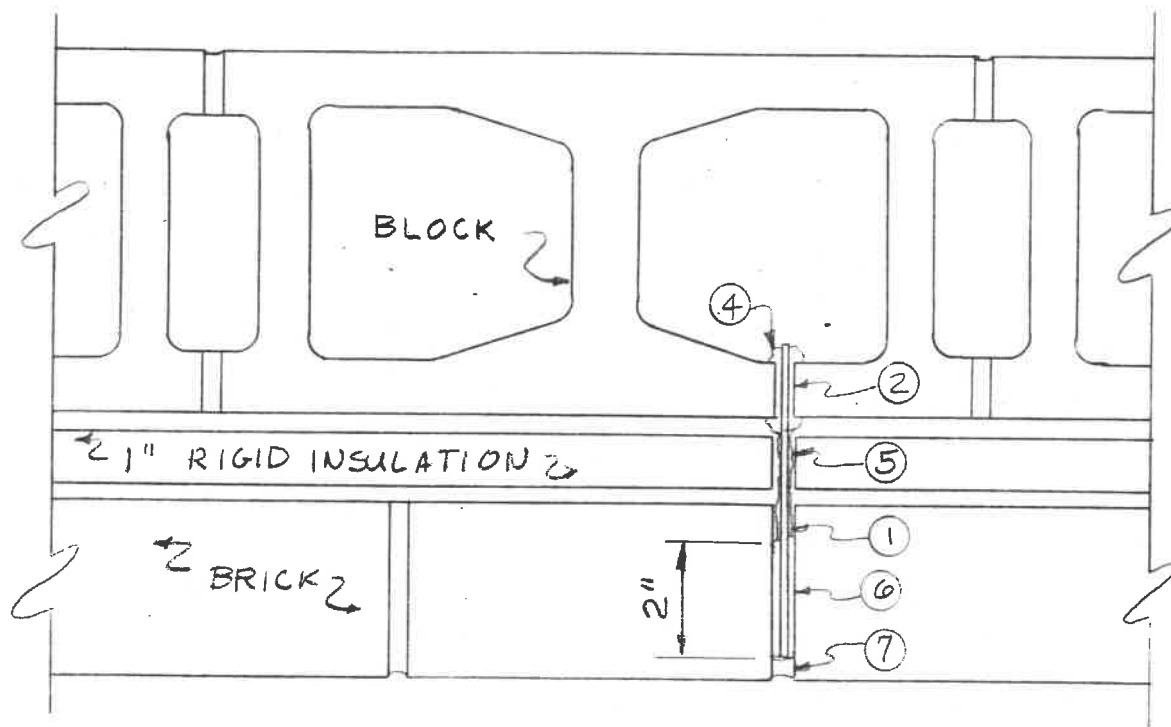
1/16" OR LESS CRACKS
CREME TYPE

APPROVED AS NOTED
SUBJECT TO CONTRACT REQUIREMENTS

DATE: 11/19/85

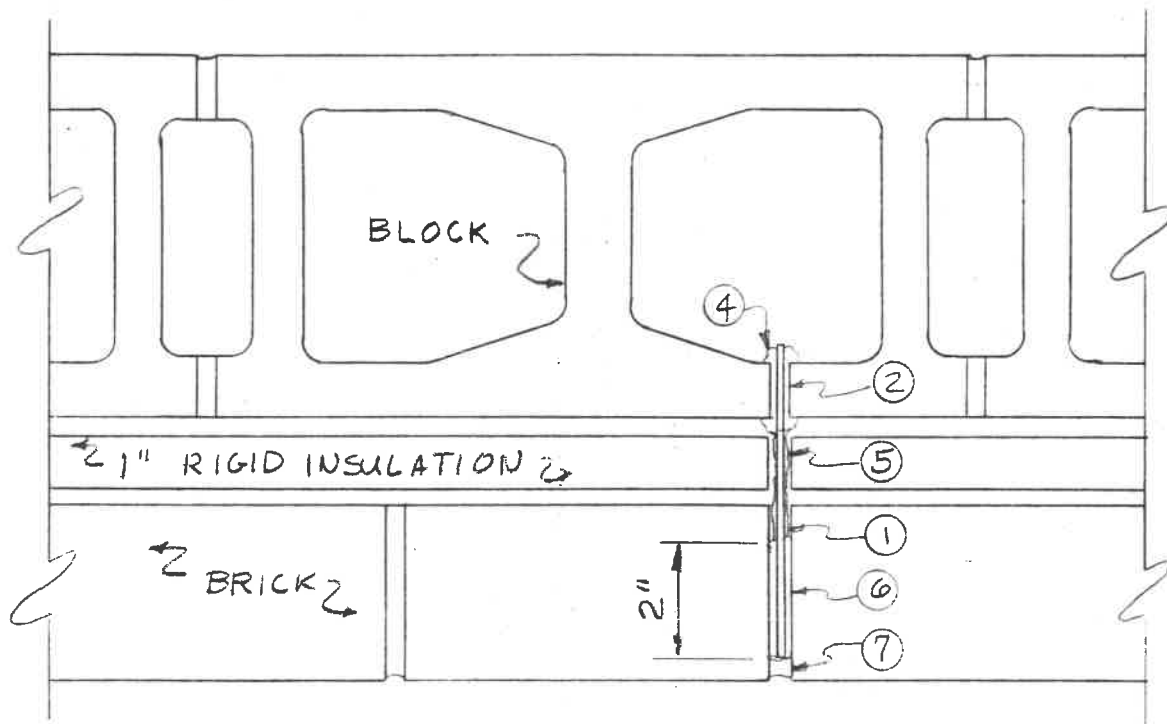
BY: 

CORNERSTONE CONSTRUCTION, INC.



ALTERNATE TIE PROCEDURE USING
SIKADUR 31 HI-MOD GEL

- 1) DRILL $7/16$ " HOLE THRU BRICK & INSULATION.
- 2) DRILL $3/8$ " HOLE THRU OR 3" MIN. INTO BLOCK.
- 3) BLOW DEBRIS FROM HOLE.
- 4) USING CAULKING GUN WITH EXTENSION TUBE ON NOZZLE, FILL HOLE IN BLOCK WITH EPOXY.
- 5) COAT ENTIRE TIE WITH EPOXY AND INSERT IN HOLE (1" \pm MAY BE LEFT UNCOATED FOR HANDLING TIE).
- 6) USING CAULKING GUN, FILL SPACE BETWEEN TIE AND BRICK WITH EPOXY.
- 7) PATCH HOLE END WITH MORTAR.



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- 7) PATCH HOLE END WITH MORTAR.