A RESOLUTION AUTHORIZING THE ISSUANCE OF AN AMENDATORY SUPPLEMENTAL CHANGE ORDER NO. 2 TO CONTRACT NO. 23-0078, ISSUED TO ARTHUR J. OGREN, INC., VINELAND, NJ, IN THE AMOUNT OF \$141,449.19.

WHEREAS, the City Council of the City of Vineland, on April 25, 2023, adopted Resolution No. 2023-189, entitled "A RESOLUTION AWARDING A CONTRACT TO ARTHUR J. OGREN, INC., VINELAND, NJ, FOR CONSTRUCTION OF VINELAND FIRE HEADQUARTERS STATION 6."; and

WHEREAS, N.J.A.C. 5:30-11.1, et seq., sets forth the requirements for the processing of change orders; and

WHEREAS, the Director of the Department of Fire has requested that an amendment be made to contract awarded to Arthur J. Ogren, Inc., Vineland, NJ, for the Construction of Vineland Fire Headquarters Station 6, as authorized by Resolution No. 2023-189: said amendment provides for labor, material and equipment to complete epoxy floor system in garage A \& B which includes a shot blast, primer, vinyl chips and epoxy high performance finish coat. A moisture mitigation system is included in this change order; and

WHEREAS, the City of Vineland desires to comply with said requirements of N.J.A.C. 5:30-11.1, et seq., and to that end herewith files with the governing body a report stating the facts involved and indicating that the proposed change order may be allowed under these regulations; and

WHEREAS, the Chief Financial Officer has certified the availability of funds for the amendatory supplemental change order for which authorization is requested in the amount of \$141,449.19; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland that said amendatory supplemental change order \#2 to Contract No. 23-0078, issued to Arthur J. Ogren, Inc., Vineland, NJ , in the amount of $\$ 141,449.19$, be and the same is hereby ratified and approved.

Adopted:

ATTEST:

April 16, 2024

## REPORT

## TO: THE MAYOR AND COUNCIL

Amendatory Supplemental Change Order No. 2<br>Contract No. 23-0078<br>Construction of Vineland Fire Headquarters Station 6<br>Arthur J. Ogren, Inc., Vineland, NJ

We are requesting that an amendatory supplemental change order be issued to Contract No. 230078 , issued to Arthur J. Ogren, Inc., Vineland, NJ, for the Construction of Vineland Fire Headquarters Station 6. This contract was authorized by Resolution No. 2023-189, adopted by City Council on April 25, 2023.

The change order requested, in the amount of $\$ 141,449.19$, provides for labor, material and equipment to complete epoxy floor system in garage A \& B which includes a shot blast, primer, vinyl chips and epoxy high performance finish coat. A moisture mitigation system is included in this change order.

This change order plus change order \#1 $(\$ 150,000.00)$ represents an increase of approximately $2.18871425 \%$ over the original contract amount of $\$ 13,316,000.00$.

The amendatory supplemental change order for which authorization is herein requested may be authorized in accordance with N.J.A.C. 5:30-11.1 et seq.


RD/wr
Encl.

FOR:
VINELAND FIRE HEADQUARTERS - STATION 6 CONSTRUCTION

## PROJECT NAME

TO: BUSINESS ADMINISTRATION
DEPARTMENT: FIRE
FROM: ${ }^{\text {RICHARD G FRANCHETT }}$
This is a request for change order \# 2 to Contract \#C23-0078 for:
Project Name Vineland Fire Headquarters - station 6 construction
Name/Address of
Contractor: OGREN CONSTRUCTION CO. 178 E. GARDEN ROAD - VINELAND NJ. 08360
The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach *documentation to support the necessity of this change order.
*(Documentation from contractor, engineer, etc.)
Add-labor, material and equipment to complete epoxy floor system in Garage A \& B which includes a shot blast, primer, vinyl chips
and epoxy high performance finish coat. A moisture mitigation system is included in this proposal.

Original Contract Amount:
Amount of this change order:
Previous Change Orders:
Total Revised Amount:
s 13,316,000.00
\$ $\quad 141,449.19$
$\$ \quad 150,000.00$
\$ 13,607,449.19
APPROVED BY: $\frac{\text { RICHARD G. FRANCHETTA }}{\text { Print/type }}$

| Richard G. Franchetta |  |
| :---: | :---: |
| RMC, EJD | Datere |
|  |  |

## NOTE: <br> CHANGE ORDERS CANNOT EXCEED 20\% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:
Account \# C04.00.000.2156.78001
CC: Purchasing Division

## Change Order

| PROJECT: (Name and address) | CONTRACT INFORMATION: | CHANGE ORDER INFORMATION: |
| :---: | :---: | :---: |
| 20.026 - Vineland Fire Headquarters | Contract For: General Construction | Change Order Number: 6 |
| Station 6 | Date: 4/26/2023 | Date: March 29, 2024 |
| OWNER: (Name and address) | ARCHITECT: (Name and address) | CONTRACTOR: (Name and address) |
| City of Vineland | Manders Merighi Portadin Farrell | Ogren Construclion Company |
| 640 E. Wood Street | 1138 East Chestrut Avenue \#4 | 178 East Garden Road |
| Vineland, NJ 08360 | Vineland, NJ 08360 | Vineland, NJ 08360 |

## THE CONTRACT IS CHANGED AS FOLLOWS: <br> (Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.) <br> Add - Provide labor, material and equipment to complete the epoxy floor system in Garage A and B. Included in this proposal is shot blast, primer, vinyl chips and epoxy high performance finish coat. Moisture mitigation system is included in proposal. <br> as described in Change Order Request \#5 from Ogren Construction dated 2/29/2024 <br> (attached)................................................................... \$141,449.19

Net total of Change Order \#6 \$141,449.19
Contingency Allowance $\$ 100,000.00$

Change Order \#1: $\$ 150,000$ previously Add to Contingency Allowance
Change Order \#2: $\$ 38,666.02$ previously deducted from Contingency Allowance
Change Order \#3: $\$ 626.93$ previoulsy deducted from Contingency Allowance
Change Order \#4: $\$ 38,105.69$ previously deducted from Contingency Allowance
Change Order \#5: $\$ 65,778.72$ deduct from Contingency Allowance
Balance of Contingency Allowance
\$150,000.00
(\$38,666.02)
(\$626.93)
( $\$ 38,105.69$ )
( $\$ 65,778.52$ )
$\$ 106,822.84$ /

The original Contract Sum was
The net change by previously authorized Change Orders
The Contract Sum prior to this Change Order was
The Contract Sum will be increased by this Change Order in the amount of
The new Contract Sum including this Change Order will be

| $\$$ | $13,316,000.00$ |
| :--- | ---: |
| $\$$ | $150,000.00$ |
| $\$$ | $13,466,000.00$ |
| $\$$ | $141,449.19$ |

The Contract Time will be increased by Zero (0) days.
The new date of Substantial Completion will be
NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

[^0]
tel: 856.692 .4226 | fax: 856.696 .5215 | email: build@ajogren.com web: www.ogrenconstruction.com
February 29, 2024
Manders Merighi Portadin Farrell Architects, LLC.
1138 East Chestnut Avenue
Vineland, NJ 08360
Attention: Steven T. Graham
RE: Vineland Fire HQ Station No. 6

## CHANGE ORDER REQUEST \#5

Provide labor, material and equipment to complete the epoxy floor system in Garage $A$ and $B$. included in this proposal is shot blast, primer, vinyl chips and epoxy high performance finish coat. Moisture mitigation system is included in this proposal.

Delete concrete floor sealer - Material Only
Ogren - Supervision, Coordination \& Protection - 8 hours @ $\$ 125.46$ P/H
Hughes Electric - Electric service \& 60 amp breaker
Industrial Floor Corp. - Epoxy floor system - Garage A\&B w/moisture mitigation
Subtotal
$5 \%$ Overhead \& Profit
Subtotal
1.5\% Bond and Insurance

Total
-( 900.00)
\$ 1,003.68
\$ 1,084.00
$\$ 131,535.00$
\$132,722.68
$\$ 6.636 .13$
$\$ 139,358.81$
$\$ 2.090 .38$
$\$ 141,449.19$

Price Breakout Per Garage Space:
Garage A Cost \$86,147.42
Garage B Cost $\quad \$ 57,526.70$


Very truly yours,
ARTHUR J. OGREN, INC.
Arthur J. Ogrens Jr.
Arthur J. Ogren, Jr., President

## industrial Floor Corporation

FAX/EMAIL TRANSMISSION PROPOSAL

Date: February 16, 2024

## Project: Vineland Fire Headquarters <br> Vineland, NJ

Section: Epoxy Flooring
Product: AC TECH 2170 MOISTURE MITIGATION SYSTEMS SANSEAM EPOXY VINYL FLAKE FLOORING SYSTEMS
Areas: GARAGE A BASE BID $\quad$ - $\quad \mathbf{8 , 5 6 5}$ Square Feet

Specs: See attached detailed installation specification.
Cost: $\quad \$ 64,125.00$ - Garage A-Add: $\$ 15,070.00$ - Moisture Mitigation

- Garage $B$ pricing is based on being done with Garage $A$
- Pricing does not include line striping, to be done by others


## INDUSTRIAL FLOOR CORPORATION

Fred F. Coccagna - Vice- President

This proposal is being sent in short form. If you require our formal proposal, product data, and other items we will be pleased to submit these at your request. Thank you, IFC

## industrial floor Corporation




## DESCRIPTION OF CHANGE:

material \& equipment to install 60 amp breaker, stand and disconnect after use by epoxy floor installer.

## CHANGE PROPOSAL AMOUNT \$ <br> \$1,084

This proposal is valid for 15 days and subject to adjustment prior to acceptance.
$\qquad$
DATE: $\qquad$

| Project: | Vineland Fire Station |  |  |
| :---: | :---: | :---: | :---: |
| Job \#: | 865 |  |  |
| (A) LABOR | Hours | Rate | Sub-Total |
|  | Hours | Rate | Sub-Total |
| JOURNEYMAN | 0.00 | 117.63 | 0.00 |
| FOREMAN | 6.00 | 130.97 | 785.82 |
| NON-PRODUCTIVE | 0.00 |  | 0.00 |
| PROIECT MANAGER | 0.00 | 117.63 | 0.00 |
| ESTIMATOR | 0.00 | 117.63 | 0.00 |
| TOTAL $\quad \mathbf{7 8 5 . 8 2}$ |  |  |  |

## (B) ENG. A MISC. LABOR (\% OF A)

|  |  | $\$ 0$ |
| :--- | :--- | :--- |
| ENGINEERING | 0.00 | $\$ 0$ |
| WARRANTY | 0.00 | $\$ 0$ |
| CLEAN UP | 0.00 | $\$ 0$ |
| JOB FACTOR | 0.00 | $\$ 0$ |
|  |  | $\$ 0$ |

Date: 2/20/2024
Change Proposal \#: 7
(E) SUBCONTRACTOR

TOTAL

| (A) DIRECT LABOR | $\$ 786$ |
| :--- | ---: |
| (B) ENG. \& MISC. LABOR | $\$ 0.00$ |
| LABOR COST | $\$ 786$ |
|  |  |
| (C) MATERIAL | $\$ 200$ |
| (D) JOB EXPENSES | $\$ 0$ |
| TOTAL PRIME | $\$ 986$ |

(E) SUBCONTRACTOR total sub \% OF OVERHEAD
TOTAL NET $10 \% \quad \begin{array}{r}\$ 99 \\ \$ 1,084\end{array}$ \% OF PROFIT SUB TOTAL
\% OF BOND COST PROPOSAL AMOUNT 0.0000


| EST. PREP. | 0.00 | - |
| :--- | :---: | :---: |
| EXPEND. TOOLS | 0.00 | - |
| EQUIP. RENTAL | 0.00 | - |
| DRAWINGS | 0.00 | - |
| SAFETY | 0.00 | - |
| TEMP. LGT/PWR | 0.00 | - |
| TESTING | 0.00 | - |
| ALLOWANCE | 0.00 | - |
| FREIGHT | 0.00 | - |
| PERMITS \& FEES | 0.00 | - |
|  | TOTAL | - |
|  |  | - |

\section*{

## ALLIED <br> construetinis <br> TEGHOLOCIES

## Whuncentirentide <br> 風 <br> 2－C－EP－ZERO VOC Resin <br> 絓

 <br> 絓}
## Description

AC Tech 21700 is a zero VOC， 2 －component $100 \%$ sol｜ds，green intied epoxy which conteins no valer or filers or exlendefs．It is a true one coat moisture vapor reduction system which has been iormulated 10 remain bonded to properiy preared concrete will high molisture emissions and a high alkatine loed．It is acceplable for tisa in both new and old concigle slabs，on grade or eleyated．This resin consists of a
blend of special epoxy reshins enghnered specificially for conciele wilh eleveled mostsurs and alkalinty levels that exceed the acceplable levels of resilient and epaxy booring systems and coallings．The AC Tech 21700 can be applied to concrele wilh tested RH leveds（ASTM F2170）of 100\％of Callium Choride （ASTM F1869）with no uppar linits，AC Teen 21703 is elkaline insensilive to pH lavels of th sustained．in
resillent flooring systems can be installad over the AC Tech 21700 including most cesinous lioar coatings． AC Tech 21700 is easy 10 apply after proper surface preparalion，mix，pout spread with a squeegee and backroll and cures in 12 hoats：and in 24 hours is ready for self－leveling underlayment or flcoring adhesives to be applied direcliy to the cured system．Contains no Benzyl alcohol．

## Gharactarisivies

AC Tech 21700 This zero VOC product can be used in popubladed public application areas or job sites where other tades are present and will not afiect hdoor ar qualliy．AC Tech 217000 ．．a concrete moisture remediation coating for all typas of flooring systems such as；（but not limited to）office buildings，hotels， hospilais，schtools，aitcraft hangats，sporls complexes， warehouses and re－puifposed structures．AG Tech can

| Features |
| :--- |
| －Excellent moisture reduction |
| －Withstands $100 \%$ RH； |
| ASTM F 1869 no upper limit |
| －Zero Voc emissions |
| －Resists alkafinity to phi of 14 |
| －Very high chemical resistance |
| －Very high mechanical resistance |
| －No sand broadcast |
| － 12 hour cure |

$\left.\begin{array}{ll}\text { zachaging } & 2.4 \text { Gallon Unils } \\ \text { 6．0 Gallon Units }\end{array}\right\}$

## Coverage Rates

Coverage rate may vary based on facioss such as the conctate surface condition，surface profile achieved （CSP value－Concrete Surface Profile；（CRI 03732）after floor preparation is complele．

ASTM F 2170 （2420）Relative Humidily

| a） | nidily | ASTM F 1869，Calc |  |
| :---: | :---: | :---: | :---: |
| 90－100\％RH | 125 sq．figal | 15－25 lbs | 100 sq．ftgal |
| 85－90\％RH | 150 Sq．ftgal | 10－15 lbs | 125 sq．flugal |
| 75－85\％RH | 175 sq．flgal | $3-10 \mathrm{lbs}$ | $150 \mathrm{sq.fUg}$ al |


| ASTM F 2170 （2420）Relative Humidily |  |
| :---: | :---: |
| 90－100\％RH | 125 sq．figal |
| 85－90\％RH | 150 śa．ftgal |
| 75－85\％RH | 175 sq．ffgal |

be used on any indeor or culdoor concrele siructure requining moisture vapor reduction and alkalinily control．
The inlamation contained in this Tectinical Dala Sheet is of a genorai nalure and is prowided in good lath and wo accepl ma fablity for errors or omissions．Because use and applicalion of this prodult are out of our

## Technical Data

| Mixing rallo $\mathrm{A}: \mathrm{B}$ | $\mathrm{A}: 2,35 ; \mathrm{B}: 1$ |
| :--- | :--- |
| Densily $\left(75^{\circ} \mathrm{F}\right)$ | approx． $1.10 \mathrm{~g} / \mathrm{cm}^{3}$ |
| Volume solids | $100 \%$ |
| Viscosity $\left(75^{\circ} \mathrm{F}\right)$ | 700 cps |
| Compressive strength | $14,500 \mathrm{psi}$ |
| Tensile strength | $4,300 \mathrm{psi}$ |
| Water absorption | $<1.5 \%$ |

## Details for Application

| Pot life $\left(50^{\circ} \mathrm{F} / 75^{\circ} \mathrm{F} / 85^{\circ} \mathrm{F}\right)$ | 50 minutes $/ 30$ minutes $/ 20$ minutes |
| :--- | :--- |
| Substrate temperature | Substrate temperature $50-90^{\circ} \mathrm{F}$ |
| Storage temperature | $55^{\circ} \mathrm{F}-80^{\circ} \mathrm{F}$ |
| Application humidity Dew polnt | $\div 5^{\circ} \mathrm{F}$ staady andor rising |
| Cure time／foot trafic：＠ $75^{\circ} \mathrm{F}$ | 12 hours |
| Cure time for flooring installation：＠ $75^{\circ} \mathrm{F}$ | 24 hours |,

All above values are appoximate and may bo used as a guideline for spacifications．Cure times are approximate and dependent upon ambient temperature and humidiay conditions of the jabsile．
control and is dapendent on substrate load（possible contaminales），mothods of preparation and epplication paramolers，on the paritularilies of the individual case． our advice，vesbal，willen or besed on lesk，does nod exempt the applicator from testing the sultability of the producls for the intended use．

## ASTM E96 Test Results

$\qquad$
Up to $98 \%$ Reduction in Moisture Vapor Emissions Perm Rate $\quad$ less than 08 and a temperature of $50-90^{\circ} \mathrm{F}$ ．

Industrial Floor Corporation

## 1．Surface Preparation

Concrete surface where the $A C$ Tecn® 2170 will be applied musl be sound，clean，absarplive and in compliance wilh ACl 201 Corimittee， $\mathrm{ACI} 318 \& 302$ ． Concrete suffaces are to be prepared in accordance with ICRI－03732 or SSPC－SP 13／NACE NO． 6 and ASTM F710．
When concrete is new provide mix design lo AC Tech for review．On existing concrete，AC Tech recommends lhat sample cores be talen from the concrete to determine if any alevated levels of organic compounds and fugitive inorganic salts are present．Please coneult the A．C Tech technical sfaff on questions conceming this type of testing．
All concrele surfaces to be coated with AC Tech（®） 2170 must be free oif all adhesives，coalings，Guring compounds，concrete sealers，effiorescance，grease， oil，palching materiaits，prevlous nooring materials，dust and any olher matural that may act as a bond breaker or sponser osmosis．
Shot blastormechanically prepare the concrete surface on new concrete to an ICRI CSP－3，existing concrete to a CSP－4．Or as directed upon reviev of test core results by $A C$ Tech fechnical staif．Grinding is generally nol ecceptable but may de considered（only in areas where shop blaster cannot be used）；consult A．．Tech iechnical stafi ior guidance．Hand tool perimeler and corners to the same CSP value as floor area．

## 2．Application Instructions

Wix the AC Tech 2170＠by opening bolh gans，premix the $A$－ 30 seconds，then pour the 8 into the $h$ and mix ior 2－3 minutes using a 400 rpm dill and a difly miker lype peddle Immediataly pour the mixed spoxy onlo theprepared concrele sutace．The AC Tech 2170 is apptied in one coat and spread using a squeegee； then bach－roll using an appropiale epoxy lype roller cover．Temperature \＆environmentally stable concrete slabs may have the AC Tech 0170 applied anylime． When apolying product with fucluaing temperalures or oulderer applications，lemperalure must be steady andor Faling at applicalion：－To avoid a dew point problem，when lemps are within $5^{\circ}(\mathrm{F})$ of own poinl． make sure hat temps are sleady and RISING．Material applicalion window is－ 30 days afler applicalion． PMMA and WMA costings musi be applied wilhin 43 hours．If he applied（cured）AC Tech＠ 2170 requires deaning，clean surface to NACE：SSPC－SPT．

## 3．Self Leveliing Linderlayments

Self－levelling underlayments are used to prowide 2 smolh and level surface ior subsequent tlooring systems application．Flooring system adhesive may be appled diecly to lhis cured AC Techo 2170，consull
the nooring manufacturars spacificalions fegarding application and type of adherives for use on a non－ porous＇s substrale，All feather－finish，self－leveling and any olhe cemenlitous matching materials musl be installed over the curedAC TechD2170 vapor reduction syslems，（untess othenise specilied）；neuer under if When any subsequent cemanillous selflevelling malerial is to be inslated，the cured surface of the AC Tech（0） 2170 must be primed wilh the AC Tech（⿴囗十介 2170 SLP（Selfievelling Primer），Olher manuiaciurer＇s non－ porous primers may be used，please consult the AC Tech lechnical stafin in these cases．

## 4．Cracks and Joints

All cemenifous topoings such at seffevelling underlayment＇s are to be installed ovar the AC Tech O 2170．Exceptions are when instaling a chembeat block coating cetween the concrete substrale and the AC Tedre 2770：（consull the AC Tech lechnical slati ior delails on this procedure installallon），Concrele cracks， control culs and expansian joints：in temperature steble envionments：all static（non－moving）sumace cradts can be seated（flooded）wilh the AC Tech 0 2170．Static cracks may be saw cullif necessary and rited by foveling a mixhure of AC Jech（1） 2170 and Cab－o－Stlo or Aerositio．On concrele substrates lhat ate expesed to temperature lluchantions：fill expansion joints ang confrol cuts will require semb－rigid joink filing systems par all applicable industry standards．Make sure to property prepare and treational all exposed crack walls wilh the AC Tech（0） 2170 product prior to instelling any backer rod or filler，maxing sure that the coaling goes down beyonc any backermed or filler used in these cractis，（soe illustralion below）．


If siab levelling is requited belore appicalion of the $A C$ Tech＠ 2170 contact the AC Tech technical depantment for assisiznce．Gypsum based compounds camnot be used unless cerified to be waterfmoislue slable．

## 5．Adhesives

Any and all fooring auhesives applied directly to the cured $A C$ Tech 02170 ，must be iomulated to be applied to a＂nor－prous＂subsitate，Conlaet fie flooring and or adiasive manumaturer for propef adhesive to use wilh their flooring．Follow all the manufaclurer＇s
specificalions／instruclions when instaling the adhesive If is recommendes to ess a small area of adhesive for proper performance is th the cured AC Tech＠ 2170 and the selecled rioori．．5 sysiem．
This product is not UV stable and vili jiscolor when exposed to UV．

## 6．Chemical Resistance

Contact AC Tech lechnical siaif for s：acific chemical
 application．

## 7．Pacliaging

24 Gallon unil
1．7 Gallon comoonent 4
0.7 Gallon component B

6 Gallon unil
4．2 Gallon component A．
1．8 Gallon component 8

## 8．Health ano Sarety

Alvays revieu producl ASOS usiore＂ending praducl and oblain appropriate PPE ant handing equipment． Do not expase skin，byes or ingess mizad or unmixed AC Tactr（2）．2170．Skin contect semole with soap and water．Eye coniact：rinse $\equiv y e$ inmedialely with clean water and seat Teriical zitation．When dealing with ingestion noie produc：©A育 numbers and treat accordingly，Store，triserer Ent disoose of in accordance with procedures in proc：$: c i:$ ．SDS．

## 9．First Aid

Eye coniact：Flush immediaiely with clean waler and seelk medical attention．
Skim contact：Wash añeciec zreas with soap ano fresh water，if a negative stiri seacion is recuring； keep individual away and oo noi come ince contact with malerial．

10．Warranties
AC Tech（a） 2170 provides a ien year labor and material wermanty when the prodtet is applied by an AC Tech approved applicalor．Any proceel applied by unapproved applicaiors is notocresed by any warranly whatsoever．Sea limited waranty below．

## 11．Emergency Responss

INFOTRAC：300－535－50E
Contract葉，104212
Call this number if ihere is a spill or a damaged con．tainer．

FOR COMMERCIAL USE ONLY IGEEP OUT OF THE REACH OF CHILDREN OR ANY PERSONNEL NOT TRAINED IN ITS USAGE．
READ MSDS AND ALL SAFETY PRECAUTIONS PRIOR TO USE．


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## SANSEAMO Epoxy-Viny Chip Ploors

## DESGRIPION

SANSEAMM Epoxy-Vinyl Chip Flooring has been specifically designed for use in industrial, Commercial, and Institutional applications where a decorotive floor surface is required, while at the same time, containing substantial abrasion and chemical resistant qualities.

It is composed of a two component $100 \%$ Solids Epoxy contathing no solvents, formulated with decorative winy chip flakes to form a workable matrix that is appled over a concrete or wood hoor in thicknesses of $1310^{\prime \prime}$ to $3 / 16^{\prime \prime}$ and finished to a smouth or slipproof surface.

## USES

SANSEAM" can be used wherever the existing floor is in a worn and deteriornted condition or where a decorative floor surface is required in offices, cafeterias, washrooms, laboratories, and other plant or institutional locations.

## WURTAQETBAS/APRTICAITON

The surface sealing may be either epoxy or polyurethane, and the finished texture may be either smooth, semif-smooth, or slipproof.


## DISCLAIMER

All data are based on information available to us and are believed to be correct. However, no wartanty is expressed or implied regarding the aceuracy of these data or the resulb to be obtained therefrom.

## ADVANTAGES/FPATURES

The outshanding feature of SANSEAM* is tiat in is possibic to athieve a decorative foor surface that is highly resstant to henvy-ainasive activity and chenical spillage in the normal plant or institutional situation.

SANSEAN[ Floors are complecely seamless, sanlary. easyetoclean and mamain a permanem glos. Installation regitrenents dimimate dust. home and costly "down-time", Large atess conishing of several thousand square feet can be completed, cured and terurned to use during regular working hours or on weckends, nights and oher off-hour periods.

Maty major installations can be performed during weskends with complete installation and cure accomplished within this period. The floor area would be ready for full use on Monday morning


## COLORS

SANSEANI Epoxy Vinyl Chip Floors are avail able in colors consisting of red, green, blue. black. white, buff, tan, gray, and brown.

The colors can be custom designed, mixed, pro portfoned and blended to provide hundreds of colur patern variations shiefinge a "salt and pepper" elfect.


ACTUAL COLORS, COMBINATIONS, PRO PORTIONS OR OTHER ACTUAL FINISHED FLOORING MAY VARY FROM THE PATTERNS PRINTED O.N THIS CHART.

## mfioor Industrial Fioor Corporation

## SANSEAM EPOXY-VINYL CHIP FLOORING SYSTEMS



You can create your own custom blends from a multitude of colors and thousands of color combinations.

The colors and patterns shown on this chart may vary from the actual upon installation due to thickness, batch manufacture, and other factors.

System $\# 13$


PHONE: 215-886-1800 TOLL-FREE: 800-296-1801

Industrial Floor Corporation

SANSEAM EPOXY VINYL CHIP FLOORING SYSTEMS - Technical Data

## Description

SANSEAM Epoxy Vinyl Chip Flooring is a decorative, 3 component, $100 \%$ Solids Epoxy, containg no solvents, formulated with color Vinyl Chips to form a workable matrix that is applied over a concrete or wood floor in thicknesses of $1 / 16^{\prime \prime}, 1 / 8^{\prime \prime}$, or $3 / 16^{\prime \prime}$ finished to a smooth or slip-proof (non-skid) surface.

## Uses

SANSEAM can be used where the floor is in a worn and deteriorated condition resulting from heavy abrasive traffic and chemical attack, and where a new decorative appearance is required.

## Surfaces

The surface of a new SANSEAM Floor can be finished to meet most requirements including a very smooth surface, one which is completely slip-proof (non-skid), or any surface inbetween.

## Base

The base to which a SANSEAM EPOXY YINYL CHIP FLOOR is to be applied must be firm and dry. All concrete areas containing holes, ruts, and depressions may be grouted using SANSEAM EPOXY GROUT. Wood floors that are loose and splintery must be repaired, and when required, covered with plywood.

## Application

Concrete floors must be cleaned. All loose and deteriorated surface materials must be removed and the entire area prepared using scarification, shot-blasting (dust-free), grinding, sanding, or by other means. Acid-Etching is not recommended. SANSEAM EPOXY PRIMER is then applied.

SANSEAM EPOXY VINYL CHIP FLOORING is then mixed and applied to the floor in the broadcast method of installation to the desired finish. After the SANSEAM has set sufficiently an application of SANSEAM EPOXY FINISH COATINGS is applied to the floor by roller, squeegee, or trowel. A second finish coating of SANSEAM EPOXY may be applied to achieve a higher gloss, to accommodate larger chip aggregate, or for other technical purposes.

## Color

SANSEAM EPOXY VINYL CHIP FLOORING has a muli-color and irregular chip appearance available in 12 basic colors that can be combined, formulated, and proportioned to create thousands of different color patterns. Any color pattern required can be achieved.

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## Advantages/Features

W/hen a new decorative heavy-duty, abrasion and chemical resistant surface is required, SANSEAM EPOXY VINYL CHIP FLOORING has no equal. SANSEAM FLOORS are seamless with integral matching cave bases. SANSEAM FLOORS offer a multitude of colors that allow the new flooring to match any interior design.
A completely new floor surface, consisting of thousands of square feet, can be installed and cured within a matter of a few days. Many times these floors can be installed over a weekend with your use of the floor on Monday Morning. There is no need for costly and time consuming base concrete removal, adjustment, or replacement as with several other types of new flooring systems.
The cost of a SANSEAM FLOOR is considerably less than many other types of flooring, and the qualities offered by SANSEAM FLOORING substantially exceed those offered by ordinary concrete or other specialty floor toppings.
SANSEAM EPOXY VINYL CHIP FLOORING will withstand fork-lift activity, heavy abrasion, chemical spillage and attack. When repairs are required they are made easily and inexpensively.
Some of the features of SANSEAM EPOXY VINYL CHIP FLOORING include the following:

## Decorative surface

Sanitary
Dust-Proof
Vermin and Mildew resistant
Lightweight
Waterproof
Moisture Friendly
Abrasion/Chemical Resistant
Shock Resistant
VOC Compliant
Non-Shrinking
Seamless Overlay
Feather edges easily without breakdown at transition locations.
No odor during application or after installation.
Cost Effective
Extensive Life Expectancy
Resists solvents, oils, acids, alkalis, salts, and many others.


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## SANSEAM EPOXY VINYL CHIP FLOORING SYSTEMS

Technical Data - 100\% Solids Epoxy

| ASTM C-579 | Compressive Strength | 18,800 psi with aggregate |
| :---: | :---: | :---: |
| ASTM C-307 | Tensile Strength | 9,000 psi with aggregate |
| ASTM D-790 | Flexural Strength | 8,900 psi with aggregate |
| ASTM C-413 | Water Absorption | 0.09\% max |
| ASTM D-2240 | Surface Hardness | D85-90 |
| ASTM D-3134 | Impact Strength | No detachment |
| ASTM D-4060 | Abrasion Resistance | 0.2 Gm max weight loss |
| ASTM D-4541 | Adhesion | 400 PSs - Failure in concrete sub-ba |
| ASTM G-21 | Antimicrobial | Yes - when required |
| ASTM E-831 | Thermal coefficient of lin | pansion in OC Max 3.5 |
| ASTM D-635 | Flame Spread/Surface | charasteristics - Self Extinguishing |
| Heat Resistance Limitation - 140 degrees $F / 60$ degrees $C$ for continuous exposure |  |  |
|  |  |  |
| RS $5-5$ | Toxicity Test | Non-Toxic |
| Thermal Shock | 5 cycles | No cracking, crazing, or warping |
| Cure Rate (77 | egreesF/25 degrees C ] | 7.8 hours for normal operations |

Chemical Resistance Data for SANSEAM
No effest from the following depending upan percentages, temperatures, use frequency, and type of Epoxy formulation (Standard, NOVOLACC, Etc.)

Acetic Acid Mator/Hydraulic Oils/Fluids
Chloric Acid
Citric Acid
Hydrochloric Acid
Nitric Acid
Phasphoric Acid
Sulfuric Acid Aluminum Sulfate
Altcalies:
Trisodium Phosphate, Sodium Carbonate, Ammonium; Hydroxide, Sodia Ash, Caustic Potash, Lime. Water: Distilled, tap, deionized.
Organic Compounds:
Sugar, mineral oils, soaps, animal and vegetable fais, milk, fruit, cheese, beverages.
NOTE: Certain chemicals and high percentages/temperatures may require NOVOLAG Epoxles.
DISCLAIMER: All data are based upon information available to us and are believed to be correct However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained therefrom.


## Industrial Floor Corporation

## LEED Environmentally Friendly Flooring for Green Project Goals

LEED "Leadership Energy Environmental Lesign" is to determine and achieve green project goals regarding a building's impact on the environment. LEED was developed by USGBC United States Green Building Council.


INDUSTRIAL FLOOR CORPORATION is aware and committed to produce flooring systems that are environmentally friendly using and installing low emitting materials creating almost no waste. These products inciude, however are not limited to, POXEPLATE Epoxy Floor Resurfacing Systems, POXEPLATE Epoxy Floor Coating Systems, POXEPLATE NOVOLAC High Chemical Resistant Epoxy Floor Resurfacing Systems, POXEPLATE NOVOLAC High Chemical Resistant Epoxy Coating Systems, SANSEAM Epoxy-Quartz Flooring Systems, SANSEAM Epoxy-Quartz NOVOLAC High Chemical Resistant Flooring Systems, INDUSTRIAL IF322 (VOC Compliant) Urethane Floor Resurfacing and Coating Systems, and SANSEAM Epoxy-Vinyl Chip (Flake) Flooring Systems.

These systems have a VOC rating of zero and nearly zero.
These products are used to renovate existing facilities due to their ability to convert prior unusable or impractical flooring to new abrasion and chemical resistant usable floor surfaces which will reduce the need for the creaüch of now facilities, which could adversefy efiect the environment when new construction projects are undertaken.

POXEPLATE and SANSEAM Flooring Systems add many years to the life use of a floor surface, and will outlast many other types of flooring, for existing and new facilities, thereby eliminating the need to redo flooring on a more regular basis since wear and erosion of these flonrs is almost non-existent

There is no waste when installing POXEPLATE and SANSEAM Floors since there is no cutting, trimming, or shaping of excess flooring materials that would occur when using a sheek goods of other type of product, thereby eliminating the need to dispose of excess unused materials.

POXEPLATE and SANSEAM Flooring is packaged in 55 gallon drums, and 50/100 ib bags which are recyclable. When a new POXEPLATE or SANSEAM Floor has been installed the used drums are returned to IFC warehouses for recycling. The empty bags are recycled as well.

If additional information is required please contact IFC at any time.


## PARTIAL CLIENT LIST - Industrial, Chemical, Food. Institutional. Government, and Military

Allled Signal Aerospace Company
Amerlcan Galvanizing Company
Amstar (Domino Sugar)
ArmaKleen Company
Brookfleld Properties
Campbell Soup Company
Center for Disease Control (NIH)
Coca-Cola Bottling Co. USA
DiBruno Brothers Foods
Domino Pizza Corporate
Dow Chemical Corporation
Dunkin Donuts Corporate
E.I. DuPont DeNemours Et Cie., DE

Federal Process Corporation
Federal Reserve Banks, NY, PA
Firestone Tire and Rubber Co.
Food Sciences Corporation
Ford Motor Company
Foremost Manufacturing Co, Inc.
General Chemical Corporation
General Electric Company
General Motors Corporation
General Services Administration, US
Giorgio Foods/Mushroom Company
Glaxo Smlth Kline Pharmaceuticals
Glabus Medical
Hovione, Inc.
Incyte Corporation
IRS Headquarters, Kearneysville
Jacquins Liquors Cie., Inc.
Johnson Matthey Corporation
Kellage's/Eggos Foods
Keystone Industries, Inc.
Kimberly-Clark Corporation
K-Mart/Sears Holdings Corporation
Kintock Corporation
Lanxess/Chemtura Corporation
Mack Trucks, Inc.
Marriott Hotels Corporation
McDonalds Foods Corporate
Merck and Company
NASA Greenbelt, Washington DC
NBBCO Headquarters
Nothing Bundt Cakes
Philadelphla Macaroni Company
Reichhold Chemicals, Inc.
Rhone-Paulenc Chemicais
Richter Precision; Inc.
Rite-Ald Warehouses Corporate • Rackefeller Center, NY Corporation

Shady Maple Farms
SKF Inudstries, Inc.
Silvex, Inc.
Smurfit Stone Container Corporation
Sodexa
Triple Cities Metal Finishing
Valspar Corporation
Wal-Mart Warehouse Corporation
Whole Foods Corporation
World Flavors Corporation

US Dept of Transportation/Airports Dulles 11 Mile Metrorail Corridor

US Dept of Agriculture, DC, PA

US Department of Justice:
Lewisburg PA, Marienville PA, Balt. MD
Washington DC, Philadelphia, PA
Bergen County NJ, Nassau County, NY
Monmouth Cty NJ, Burlington Cty NJ Bellefonte PA, Graterford PA, EI Reno OK

US Postal Service: 44 Locations PA, NY, DE, NJ, CT, VA, MD, DC.

Waste Treatment/Power Plants:
Bayonne, NJ, Bridgeport, N, Linden, NJ
Delaware City, DE, Front Royal, VA
Mahopac, NY, Somerset-Raritan, NJ
Woodstock, NY, Media, PA, Wash. DC
Richmond, VA, East Rutherford, NJ
Leesburg, VA, Port St. Lucie, FLA.

Schools - More Than 300:
Florida, Pennsylvania, New Jersey New York, Connecticut, Maine, Virginia Massachusetts, Delaware, Maryland West Virginia, Ohio, North Carolina South Carolina, Washington, DC Rhode Island.

Military:
The Pentagon, Washington, DC Eisenhower Exec War Bldg., DG Lafayette Fed Military Bldg., Ic US Air Cammand, ChambersbufE US Air Force, Andrews AFB, MD US Air Force, Kelly AFB, SA, Texab US Air Force, Loring AFB, Maine
US Air Force, McGuire AFB, NJ
US Army Proving Ground, MD
us Army/Air Force, Middle Rlver
us Army Defense Support, Phila.
US Army Electronics Com: PA
US Army, Fort Belvoir, VA
US Army, Fort Dix, Jt. Base, NJ
US Army, Fort Gordon, Georgia
US Army, Fiort meade, MD
US Army, New Cumberland, PA
US Army, Tobyhanna Depot, PA
US Army Walter Reed Hospit, DC
US Coast Guard Yards, Baltimore US Coast Guard, Philadelphia, PA US Coast Guard, Sewickley, PA US Marine Corps, Albany, Georgià
US Marine Corps, Central Calf. uS Marine Corps, Quantico, VA US Medical Research, Bethesda US Naval Air Station, Patuxent US Naval Station, Lakehurst, NJ US Naval Supply Depot, Phila. US Naval Station, Newport, RI uS Naval Support Depot, Phlla. US Naval Training Center, Orlando US Naval Undersea, Bremerton US Naval Academy Annapolis MD US Navy Anacosta-Bolling It Base US Army Guantanamo, Cuba US Naval Research, Washington

US Naval Shipyards:
Washington, DC, Philadelphia, PA New York, New York, Portsmouth Norfolk, VA

Veterans Adm. Hospitals:
Ashville, NC, Atlanta, GA, Butler,
PA, Coatesville, PA, Lyons, NJ,
Montrose, CT, Montrose NY,
Newark, NJ, Fhiladelphia, PA,
Pittsburgh, PA, New York; NY.


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