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VICE PRESIDENT

Gifford-Hill & Company, Inc.

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AUG 13 1980

cc: JOHN R. HILL, JR.
R.O. EVANS
ADM. E.R. ZUMWALT, JR. ✓

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GIFHILL CHA

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ATTN: SHEIK ABDUL RAHMAN ALI AL-TURKI

ADMIRAL ELMO R ZUMWALT, USN (RETIRED), EX CHIEF OF NAVAL OPERATIONS, U S NAVY, WILL BE IN JEDDAH ON 20-23 SEPTEMBER FOR MEETINGS WITH SAUDI DEFENSE AND FOREIGN MINISTERS.

HE WOULD LIKE TO MEET WITH YOU IF YOUR SCHEDULE PERMITS YOUR TRAVEL TO JEDDAH DURING THAT PERIOD.

IF OK WITH YOU, PLEASE NOTIFY ME SO THAT WE CAN FORWARD DETAILED INFO RE EXACT DATE AND MEETING PLACE.

ADMIRAL ZUMWALT IS A DIRECTOR OF GIFFORD- HILL AND CO INC.

BEST WISHES

GIFHILL CHA

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ATTN: S A RISHA/ NAZIR NASIM

IF L/C COVERING SAUL PO NBR 0654 NOT IN HAND BY 18 AUGUST WE WILL MISS SAILING NEDLLOYD 20 AUGUST. NEXT SAILING 10 SEPTEMBER. BUT DATE MAY BE TOO LATE TOACCOMMODATE REID BROWN CONSTRUCTION SCHEDULE. THEREFORE ENDANGERING ORDER.

PLEASE EXPEDITE L/C IN AMT DOLLARS 13,750 AS REFERRED TO IN PREVIOUS TELEXES AND ADVISE AT ONCE.

BEST WISHES

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GIFFORD-HILL®

PRODUCTS FOR CONCRETE
admixtures/hardeners/ sealers/grouts

GIFFORD-HILL & COMPANY, INC./1980 CATALOG

concrete admixtures

mr/manufacturer

Gilford-Hill & Company, Inc., a New York Stock Exchange Company, has been a supplier of materials to the construction industry since 1926. The Chemical Division is a part of the Construction Materials Group, which supplies the construction industry with portland cement, ready-mix concrete, aggregates, prestressed–precast concrete members, concrete pipe, concrete chemicals, and other construction related products. Chemical Division plants located in Charlotte, North Carolina and Dallas, Texas, supply and service high-quality concrete construction chemicals to ready-mix concrete producers, contractors, products plants and industrial accounts. The requirements and needs of specifiers (such as architects, engineers, and owners) are of paramount concern.
Distribution is accomplished through a network of distributors throughout the United States and foreign countries.

PEACHTREE CENTER PLAZA HOTEL, ATLANTA, GEORGIA
Owner: Portman Properties–Atlanta
Operator: Western International Hotels, Inc.–Seattle
Architect: John Portman & Associates–Atlanta
Contractor: J. A. Jones Construction Company–Charlotte
PSI ADMIXTURE USED THROUGHOUT

pp/product presentation

PSI® WATER REDUCING ADMIXTURES

description

PSI is a highly concentrated poly-hydroxy type multi-component liquid water-reducing admixture for use in all concrete. PSI reduces the quantity of mixing water required to produce concrete of a given consistency while providing greater economy for a given strength. PSI Normal and Retarders are chloride free admixtures designed to reduce water requirements and to increase the efficiency of cement hydration. It increases strengths and significantly improves water tightness, workability and finishing characteristics. PSI is manufactured in our own plants in three basic formulations:

- PSI Normal (ASTM C 494 Type A, Chloride Free)
- PSI Retarders (ASTM C 494 Type D, Chloride Free)
- PSI III (hi-early)—(ASTM C 494 Type E)

PSI water-reducing admixtures are compatible with air-entrained or non air-entrained concrete mixes but do not of themselves entrain air. Specifiers and users of PSI admixture can be assured of superior results in both the plastic and hardened state of all concrete.
PSI Normal and Retarders may be used in all concrete, including prestressed and colored. The superior finishing characteristics of PSI mixes provide concrete free from blemishes, pitting and other undesirable surface defects.
PSI Admixtures are manufactured in our own plants under strict Quality Assurance procedures satisfactory for nuclear safety-related construction.

advantages of PSI admixtures

plastic concrete

- Reduces Mixing Water for Given Consistency
- Improves Workability
- Reduces Segregation
- Improves Placing and Finishing Characteristics
- Increases Control of Setting Times

hardened concrete

- Increases Compressive, Flexural and Bond Strength
- Reduces Cracking and Shrinkage
- Reduces Permeability—Increases Watertightness
- Increases Resistance to Freezing
- Increases Resistance to Scaling of Air-Entrained Concrete
- Provides Improved Finished Appearance

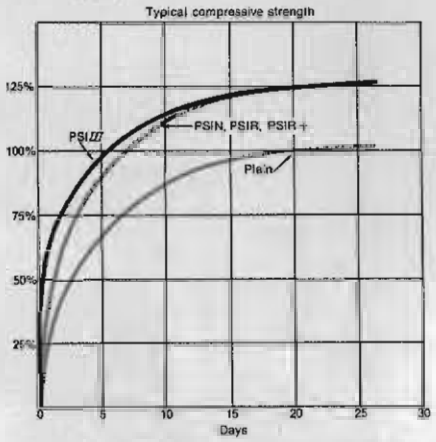
compatibility

PSI is compatible with air-entrained cements and all approved air-entraining agents. Also compatible with calcium chloride, stearates, etc.

precautions

PSI Normal and Retarders can be dispensed at temperatures as low as +23°F. Care should be taken to prevent freezing below this temperature; however, freezing does not damage the material if it is subsequently agitated after thawing.

strength performance—



typical performance— PSI admixture

5 sack non air-entrained mix (¾" stone aggregate)

Per Cubic Yard	Plain	PSI
Admixture fl. oz. per 100 lbs. cement	—	2.0
Water, Gals.	41.0	37.0
Slump, Inches	3¾	3½
Initial Set, hrs. @ 70°F.		
PSI Normal	5:23	5:30
PSI Retarder	5:36	6:48
Compressive Strength		
7 Day psi	2290	3330
28 Day psi	3590	4280

AIR-TITE®

description

Air-Tite air-entraining agent (AEA) is an aqueous solution of neutralized vinsol resin containing 14% solids. It increases the resistance of concrete to freeze-thaw cycles and scaling; improves workability and reduces bleeding.
Air-Tite meets the requirements of ASTM C-260, CRD C-13, and AASHO-154.

non-shrink grouts

pp/product presentation

SUPREME® GROUT

Pre-Mixed Non-Shrink Grout (Non-Metallic)
non-corrosive/non-staining

description

SUPREME non-metallic, non-shrink grout is a ready-to-use product containing specially selected silica aggregate cement, shrinkage compensating agents, plasticizing and water-reducing agents. The addition of water is all that is needed to provide a grout of incomparable quality. SUPREME gives the user all the best qualities of a non-shrink grout with the added features of a grout that is non-corrosive and non-staining. The carefully blended ingredients contained in SUPREME Grout produce a positive but controlled expansion from time of placement. Mass expansion is *not* created by gas liberation. SUPREME Grout *does* provide excellent flowability, workability and setting characteristics. Strength, density and dimensional stability are assured when using SUPREME Grout. Gifford-Hill grouts are manufactured in our own plants under rigid quality control standards. Yield per 55 lb. bag is approximately ½ cu. ft.

uses

SUPREME Grout is ideal for interior or exterior usage. Typical applications include the following:

- Precast & Prestressed Work
- Building Columns
- Anchor Bolts
- Machines/equipment
- Chemical plant equipment
- Transmission Towers
- Nuclear and other power plants
- Plant areas subject to wet or humid conditions
- Equipment subject to high torque/impact.

advantages

- Non-Shrink
- High Strength
- Durable
- Flowable
- Non-Staining (interior or exterior usages)
- Resistant to penetration of oil, grease and foreign substances
- Capping with mortar not required if cured properly
- Economical—yields approximately 25% more than iron grouts

curing

Exposed edges of SUPREME Grout do not require cutting back or any type of special treatment. Exposed areas of grout should be coated with a good cure/seal compound such as Gifford-Hill SEALCO®.

SUPREME® PLUS GROUT

Pre-Mixed Non-Shrink Grout (non-corrosive)

description

The addition of metallic particles enables SUPREME PLUS Grout to withstand heavy impact, torque, and vibration loads of heavy reciprocating or high-speed machinery or machinery subject to thermal movements. The ductile and reinforcing effect of these iron particles makes SUPREME PLUS Grout especially desirable for heavy paper machines, turbines, etc. where high temperature, humidity or vibration is anticipated. Yield per 55 lb. bag is .42 cu. ft.

technical data

SUPREME Grouts conform to the requirements of Corps of Engineers CRD-C 588 and other applicable test standards.

mixing water requirements

STIFF: 1 Gallon/55#Bag
PLASTIC: 1¼ Gallons/55#Bag
FLOWABLE: 1½ Gallons/55#Bag

typical compressive strength (psi)

	Supreme	Supreme Plus
3 DAYS	7,250	9,800
7 DAYS	8,870	11,500
28 DAYS	13,330	13,420

vertical expansion %

	Supreme	Supreme Plus
3 DAYS	+.033	+.08
7 DAYS	+.067	+.08
28 DAYS	+.07	+.08

GILCO® GROUT

Pre-Mixed Non-Shrink Grout (Metallic)

uses

GILCO Grout is recommended for the precision grouting of heavy machinery and equipment on concrete.

technical data

GILCO Grout conforms to Corps of Engineers CRD-C 588
Flow = 102%

TYPICAL COMPRESSIVE STRENGTH		VERTICAL SHRINKAGE (+ = Expansion)	
Days	PSI	Days	% Expansion
3	6,000	3	.088
7	10,800	7	+.089
28	12,690	28	+.090

TYPICAL SETTING TIMES	
Initial	1:30
Final	3:00

TYPICAL BOND STRENGTHS
#8 Deformed Bar
28 Days—1460 psi

suggested specification

Non-Shrink Grout for setting machinery, equipment, and column base plates, etc., shall be GILCO Pre-Mixed Grout as manufactured by Gifford-Hill & Company, Inc.

packaging

70 lb. Poly-lined bags, yield ½ cu. ft.

GIL-CRETE™

Very Rapid Hardening Mortar

Gil-Crete is designed for patching applications where rapid hardening and high strength are desired. Uses include patching highways, floor slabs, etc.

Gil-Crete is a relatively volume stable material with an initial setting time of approximately 15 minutes, and a final setting time of approximately 35 minutes.

Typical Strengths:
2 hours—2000 psi
1 day—3600 psi

Packaging:
55 lb. poly-lined bags, yield ½ cu. ft.

McGUIRE NUCLEAR STATION COWANS FORD, NORTH CAROLINA Duke Power Company Charlotte, North Carolina SUPREME and GILCO GROUTS USED THROUGHOUT

concrete floor hardeners

pp/product presentation

FLOORCRON®
Non-Metallic Floor Hardener

description

FLOORCRON is a non-metallic floor hardener consisting of specially graded quartz aggregates, a dispersing agent and cementitious binders in a ready-to-use mixture. FLOORCRON applied as a dust coat to freshly placed concrete floors provides a tough, wear-resistant, floor surface that will wear up to four times as long as normal concrete. The non-metallic, non-rusting aggregates contained in FLOORCRON resist severe abrasion, dusting, spalling and effects of weathering. In addition it provides resistance to mild acids, bacterial growth and corrosive action of alkalis. FLOORCRON is excellent for interior or exterior concrete floors.

uses

Typical areas where FLOORCRON should be used are interior or exterior floor surfaces subject to medium to light-duty abrasive wear, floors in contact with water or dampness, or areas subject to certain types of corrosion (mild acids, alkalis, etc.).

types

FLOORCRON is available in ready-to-use form only.

application rate

Average Duty: 50-60 lbs. per 100 sq. ft.
Heavy Duty: 75-100 lbs. per 100 sq. ft.

TULSA GLASS PLANT
FORD MOTOR COMPANY
TUFFPLATE floors used throughout

TUFFPLATE®
Metallic Floor Hardener

TUFFPLATE metallic floor hardener provides a wear-resistant concrete surface on all floors exposed to heavy-duty traffic. TUFFPLATE should be used on interior floors that are subject to heavy impact, abrasion and frequent steel-wheeled traffic.
TUFFPLATE is available in natural or a variety of colors as shown below.
TUFFPLATE PLUS is intended for extra heavy duty floors and can be applied at the rate of 2#/sq. ft.

COLORS FOR FLOORCRON AND TUFFPLATE

Tile Red | Brown
Terra Cotta | Tan
French Gray | Black
Battleship Gray | Green

IMPACT®
Metallic Floor Topping

IMPACT is a well-graded, ready-to-use iron floor topping used in key floor areas subject to high point loads, impact and/or abrasion.

application rate

½" thick	9-10#/sq. ft.
1" thick	18-20#/sq. ft. (1" minimum over pre-set base)

Quality Assurance & Field Service

Strict quality control standards assure the user of uniformity and consistency of product. Quality Assurance Manual follows ANSI guidelines.

In order to achieve optimum performance for specific applications from Gifford-Hill products, the user or specifier should avail himself of the services of a Gifford-Hill representative; no charge for this service.

Gifford-Hill & Company, Inc.
Woodlawn Green, Charlotte, N.C. 28210
phone 704/525-9555—telex 57-5136

curing compounds

pp/product presentation

SEALCO® 309

SEALCO is a clear, acrylic copolymer curing and sealing compound for use on all concrete surfaces. SEALCO provides the water-retention qualities essential to proper curing with the added feature of a clear membrane that effectively seals and beautifies new or old concrete. Exceeds ASTM C-309.

SEALCO® 800

SEALCO 800 meets and exceeds requirements of GSA TT-C 00800. Highest solids acrylic available. Specially formulated for heavy-duty applications where a clear film is required for resistance to spalling and mild corrosive solutions.

HARDTOP®
Curing, Hardening, and Dustproofing Compound

- One coat curing and hardening
- Sprayable—no residue remains
- Immediate application—resists oil, grease, salts, and chemical penetration

G-H CONDUCTIVE CURE

G-H Conductive Cure is to be used with Tuffplate Sparkproof metallic floor hardener. Sparkproof used with G-H Conductive Cure in areas of spark hazard meets Spec. Navy Budock TS-F-15.

miscellaneous

NON-SLIP AGGREGATE

Non-Slip Aggregate is a graded aluminum oxide shake for the safety of non-skid surfaces—Application rates are ¼ to ½ lb. per ft.²

MIGHTY® or PSI® SUPER SUPERPLASTICIZERS
High-Range Water Reducers For Concrete

- Dramatic increase in workability (slump) with no segregation, bleeding or loss of strength.
- Desired strength with less cement.
- Replace less available, more expensive Type III cement with Type I.
- Lower energy requirements because of reduction of heat required.
- Less labor and time required for placement.

Dosage 6 to 16 fl. oz/100 # cement.

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