TACK OIL CSS1H

Brewer Cote Tack Oil (CSS1H) is a high solids-slow setting Asphalt Emulsion with additives and viscosity builders for optimum performance. Tack Oil meets and exceeds ASTM D 977.

COVERAGE

100 sq/ft per gal diluted with 1-part water to 1-part concentrated material.

METHOD OF APPLICATION

Brush, Squeegee or conventional Oil Spreading Equipment.

WEATHER LIMITATIONS

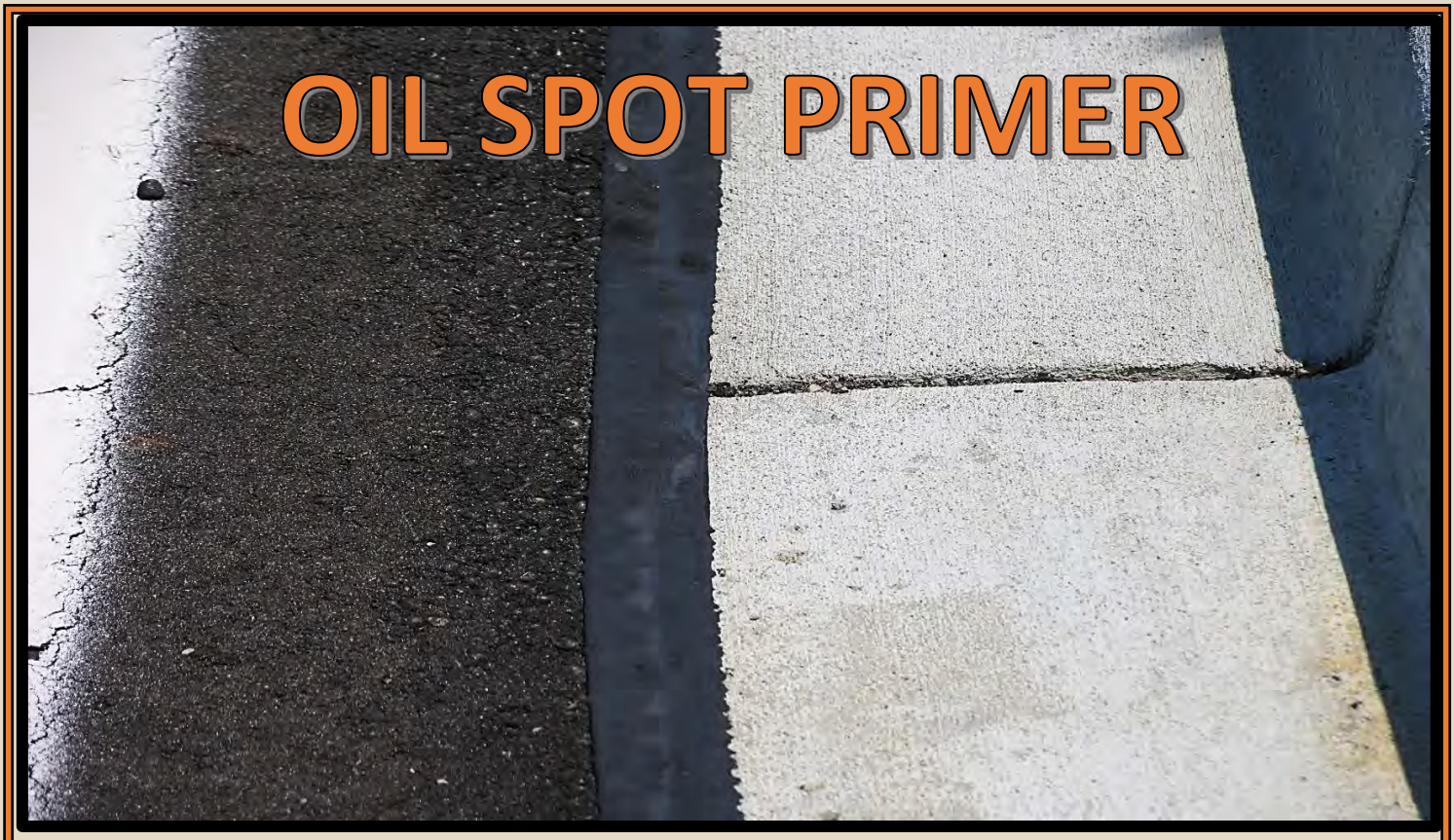
For best results do not apply on rainy, foggy or when temperature is expected to drop below 50° F during the next 24 hrs.

DRYING TIME	CLEAN UP	COLOR	PACKAGING
1 hr. at 77° F 50% humidity.	Water when wet, Solvent when dry	Brown when wet Black when dry	5 gal Pails, 55 gal Drums Bulk

STANDARD SPECIFICATIONS

TEST DESCRIPTION	AASHTO METHOD	RESULTS	SPECS
<u>Test on Emulsion</u>			
Viscosity @ 77F, SFS	T59	32.1	20-100
Sieve Test, WT%	T59	0.03	0.10 max
Residue by Evaporation	A512	64.2	57 min
<u>Residue by Distillation</u>			
VOC @ F. % of Total	T59	0.05	3 max
<u>Test on Residue from AZ 504</u>			
Original DSR		1.52	1.00 Kpa, min
Phase Angle		88.0	report
RTFO DSR		3.52	2.20 Kpa, min
Phase Angle		82.1	report
PAV DSR		4002	5000 Kpa, max
Phase Angle		57.5	report
S Value		110	300 Mpa, max

OIL SPOT PRIMER



Brewer Cote ® Oil Spot Primer is a modified latex acrylic that has been formulated To help Pavement Sealers adhere to existing stained surfaces. Added ingredients improve the penetrating ability of our primer and thus gives added future protection. For use on all Parking Lots, Aprons and Driveways of asphalt construction.

METHOD OF APPLICATION

Stir well before using, Apply a thin coat. Should be diluted up to 100% with water. May be Brushed or sprayed with a garden type sprayer. Always torch lightly the spot and scrape off Excess oil before applying.

WEATHER LIMITATIONS

For best results, apply on cleaned, dry surfaces when temperature are not to drop below 50° F for 2 hrs.

Drying time	Clean up	Color	Packing
1 hr. or less depending on weather conditions	Water when wet mineral spirits when dry	Dark Brown when wet Black when dry	5 gal pails (45 lbs.) 55 gal Drums (480 lbs.)

PHYSICAL ANALYSIS

Non-Volatiles %	45% min
Specific Gravity	1.02
Flexibility	No Cracking or Flaking
Resistance to impact	No Chipping, Flaking or Cracking
Accelerated Weathering	No deterioration

BREWER COTE of ARIZONA

THE PAVEMENT MAINTENANCE SPECIALISTS 5226 W. MISSOURI AVENUE, GLENDALE, AZ 85301

www.brewercoteaz.com Tel. 623-931-3728 Toll 888-931-3728 Fax 623-842-0714 sales@brewercoteaz.com

Brewer Cote *of Arizona* ®

RHINO HIDE

is a blend of emulsified asphalt, clean aggregate modifiers, fiber, rubber & drying agents. Designed especially for heavy duty repairs of allorgatoring and Skin patching, along with serious crack repair. Rhino Hide can be used to build up depressions, fill expansion joints and wide cracks or any other job requiring a Towel Grade, heavy duty, fast drying modified asphalt.

RHINO HIDE

SURFACE PREPERATION

Surface must be dry, clean, and free from all loose material, dirt, and dust.

APPLICATION

Pour/trowel into alligator areas and work with squeegee.

FILLING ALLIGATORED AREA

Pour in alligatored areas and work with squeegee, feather in edges

FILLING CRACKS

Fill cracks, scrape excess from surface before setting.
(Use V-shape squeegee).

FILLING "BIRD BATHS"

Fill with lifts of 1" depth maximum, allow to harden before applying seal coating. A second coat can be applied after the 1st coat dries to blend better with the sub strait. If traffic cannot be avoided after 4 hrs., cover area. Clean area of all dirt, dust and loose with band before opening for traffic material. Surface must be dry and clean

WEATHER LIMITATIONS

For best results, do not use when rain is in the forecast and temperature is not expected to drop below 55° F. Rhino Hide is no substitute for properly replaced asphalt, Rhino Hide will prolong the life of the deteriorated asphalt

DRYING TIME

½" Lifts; 4 hrs., 1" Lift; 6-8 hrs., based on 77° F, 50% Hum. Test for traffic ability before opening. If traffic Must be opened, broadcast with sand.

COVERAGE	CLEAN UP	COLOR	PACKING:
5 Gal covers: 8 sq./ft 1" thick 96 ln/ft @ 1"x 1"	Paint Thinner or Biodegradable solvents.	Black, when dry	5 gal pails 55 gal drums.

NOTE:

Keep from freezing. Do not store in direct sunlight or where temperatures exceed 100° F.

www.brewercoteaz.com Tel 623-931-3728 Toll 888-931-3728 Fax 623-842-0714 sale@brewercoteaz.com

Brewer Flex ® Cold Pour Crack Sealant

Brewer Flex ® Cold Pour Crack Sealant has been designed with additional Acrylic and Plasticizers to give you Maximum Elongation and Resiliency in a ready to use product. Like our "Brewer Flex ® Hot Pour Crack Sealant", no other product performs as well in both Concrete and Asphalt crack joints. Use Brewer Flex ® Products when you want superior long-lasting results.

ADVANTAGES

• Ready to use • Cost Effective • No Heating Necessary • Flex at Low Temperature
• Great for Hot Climates • Beautifies your Pavement Investment • Extends Life of Pavement

METHOD OF APPLICATION

Stir before using, pour along crack out of the container or applicator. A second application maybe necessary in deep cracks or joints.

WEATHER LIMITATIONS

Do not apply if below 45° F, or if rain is imminent, and is not going to fall below 45° for the next 24 hrs. Pavement slots must be free of dust, dirt and water prior to application. Use compressed Air before applying sealant. Slot may be slightly damp to help penetration of sealant.

COVERAGE

Approximately 30 Ln/ ft. per gal. based on ½" wide by ½" deep cracks. Coverage will vary depending on width / depth of slot and type of application method.

DRYING TIME

For best results, apply to clean dry cracks when temperature is not expected to drop below 50° F for the 24 hrs.

CLEAN UP	COLOR	PACKAGING
Water prior to drying Use Biodegradable Prism or suitable solvent	Black	5 gal. pails

BREWER COTE of ARIZONA ® INC
"THE PAVEMENT MAINTENANCE SPECIALISTS" 5226 W. MISSOURI AVENUE, GLENDALE AZ 85301
www.brewercoteaz.com Tel. 623-931-3728 Toll 888-931-3728 Fax 623-842-0714 sales@brewercoteaz.com



PERMANENT PAVEMENT REPAIR MATERIAL

UPM ® Unique Patching Material

UPM ® Permanent Pavement Repair Material is a High-Performance cold patch asphalt mix that can Be used by Municipalities, Contractors business and Home owners to repair Roadways, Parking Lots, Jogging Bicycle and Walking paths, Driveways and other Asphalt and Concrete pavements.

Benefits / Features

Year-round use • Ready to use – No primer or tacking materials are required prior to patching • Permanent repairs- UPM ® mix repairs have been proven* to out-last the surrounding pavement (*Strategic highway research program (SHRP-H 106 Report plus other independent studies.) • All Weather Application – Permanent repairs under wet or dry conditions. • Seasonal grades – Specific formulations to accommodate year-round patching requirements. • Easy to use – Pour or shovel UPM ® mix into the pothole using the 3 – step method.

Distributor

BREWER COTE OF ARIZONA INC ® 'THE PAVEMENT MAINTENANCE SPECIALISTS'
5226 W. MISSOURI AVENUE, GLENDALE, ARIZONA 85301

PERMANENT PAVEMENT REPAIR MATERIAL
UPM ® Unique Patching Material

Limitations

Not intended for applications on unsound pavements. For overlay applications at least one test section should be prepared to evaluate the suitability of the materials and procedures. Do not Sealcoat over new patches for at least 30 days to allow for proper curing.

Surface preparation

The area to be prepared should cleaned and swept to remove loose fragments and debris from the area providing a solid base and clean edges.

For Best Results

Use the appropriate grade of UPM ® mix for the ambient temperature at the time the mix is being applied. Compact the mix before opening to traffic.

Placement

Shovel or pour UPM ® mix into hole and level out 25% higher than desired depth to allow for compaction. Compact UPM ® mix with hand tamper, roller or plate compactor. For deep Potholes apply and compact UPM ® mix in separate 2" layers.

Coverage

10 lbs. of UPM ® mix covers 1 sq. ft, 1" deep. Coverage rate @ 2" Deep

Unit	Square Feet
1 Ton	100
660 lb. Drum	33
60 lb. Pail	3
50 lb. Bag	2.5
24 lb. Pail	1.2

UPM ® Mix Seasonal Grade	To be applied when outdoor temperature is
Winter	40° F and Below / 4² C and Below
Spring/ Fall	40• F To 60° F / 4° to 16° C
Summer	60° F to 80° F / 16° to 27° C
Extreme Summer	80° F and Above / 27° C and Above

Shelf Life

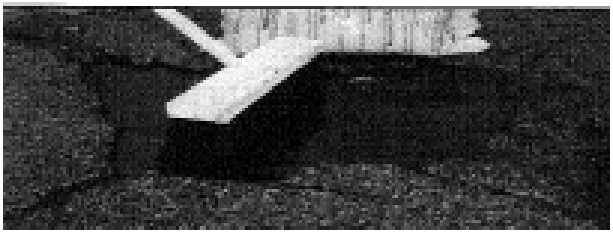
Two years if stored in an unopened pail or drum. 18 mos. In unopened Bag. Bulk tonnage varies.

PERMANENT PAVEMENT REPAIR MATERIAL
UPM ® Unique Patching Material

BETTER MATERIAL = BETTER RESULTS

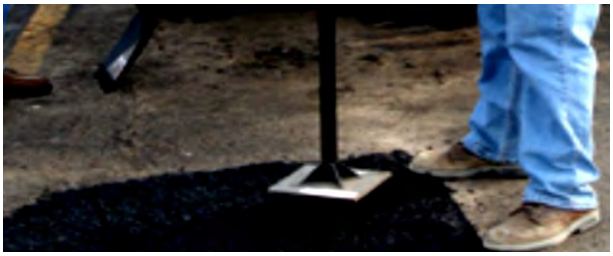
Instructions

Step #1
Using a Broom or Leaf Blower, Clean Out large chunks and loose debris from hole. UPM® works best if the material is applied to a solid surrounding pavement and good base.



Step #2
Apply keeping Material contained in the hole. If the hole is deeper than 3" install & compaction lifts. Material should be 25% higher than surface before compaction.

Step #3
Compact with Hand Tamper, Truck or Car Tires, Plate Compactors or Rollers. After compaction, dust surface with sand or cement powder to "Set" UPM® quicker. This reduces tackiness for immediate pedestrian traffic.



Questions and Answers

Why is UPM® Better?
UPM® is State approved & used by State DOT's all across the U.S. All raw materials are tested by Our State-of-the-Art-Laboratory to ensure Quality & Guaranteed Performance

Can UPM® be used for Concrete repairs?
Yes, UPM® is ideal for Concrete pavements, including Roadways, Driveways, Bridge Decks and Parking Lots.

What is the Coverage Rate?
Approximately 10 lbs. of UPM® will cover 1 Sq./ Ft - 1" Deep

Are there Seasonal Grades of UPM®?
Yes! UPM® is Available in Winter, Spring fall, and Summer Formulas. These are designed for the Optimal Performance during the various temperatures of application

Can UPM® be used in Wet Holes?
Wet or Dry, UPM® is designed to perform in any weather, any temperature

What is the Shelf Life of the Bags?
1 Year

How does UPM® "Set Up" ?
Upon Compaction, the aggregate and asphalt interlock making the patch stable and ready for immediate traffic. Road dust and dirt will crust the top of the patch. The patch will slowly cure below the crust remaining flexible during expansion and contraction.

Is A Primer or Tack Coat needed before applying UPM®?
No! UPM® is self-priming. The Proprietary liquid Asphalt gives tenacious binding properties to the hole

Distributor
BREWER COTE OF ARIZONA THE PAVEMENT MAINTENANCE SPECIALISTS'
5226 W. Missouri Avenue Glendale Arizona 85301
WWW.BREWERCOTEAZ.COM TEL. 623-931-3728 TOLL 888-931-3728 FAX 623-842-0714 SALES@BREWERCOTEAZ.COM

BREWER COTE® of Arizona

Air Pump Spray Kit System 4

Model Number: BC-APK-4 **Part Number: 480144**

The 8 HP Honda Air Pump System gives you increased volume (over our 5.5 HP Unit) Even Spray Bar capability. This System is capable of spraying all types of emulsions And sand loading, the 1" Nomad "No Freeze" dual diaphragm pump performs.

FEATURES

1" Nomad Dual Diaphragm Pump
Large Capacity 2" Basket Type strainer
50' ¾" Spray Hose, 6' Aluminum Wand
1½" Ball Valve for Transfer
Pressure Regulator and Air Filter

SPECIFICATIONS

Weight	375 Lbs.
Height	45"
Width	25"
Length	55"

Pump

Nomad 1" Dual Diaphragm Non Freeze System
1 Year Manufacturer's Warranty

Engine

8 HP Honda Engine with Low Oil Shut Down
2 Year Manufacturer's Warranty

Air Compressor

Tank Size	8 Gallon
CFM	20 CFM @ 175 PSI
PSI	Factory Sets at 125

1 Year Manufacturer's Warranty

"The Pavement Maintenance Specialists"
5226 W Missouri Avenue Glendale Arizona 85301
www.brewercoteaz.com Tel.623-931-3728 Toll 888-931-3728 Fax 623-842-0714 sales@brewercoteaz.com

BREWER COTE® of Arizona

INSTRUCTIONS
Air Operated Dual Diaphragm Pump

Crack Preparation

1 Clean Cracks thoroughly before filling, by removing all dust, dirt, vegetation, or any loose particles.
2 Use air pressure from compressor, air blower, router, or high pressure water to clean. If water is used, be Sure all standing water is removed before filling cracks.
3 For deep cracks, insert backer rod at a depth of ¼" to ½".

Instructions for Pump Operation

1 All necessary safety clothing and goggles should be worn while operating and cleaning equipment.
2 Remove drum lid and place retrofitted lid on drum.
3 Be sure wand valve is closed completely.
4 Hook up air source.
5 Set pump Regulator at 80 PSI or less
6 Open circulation valve W/Wand closed. Allow product flow through system for 5 minutes.
7 Open wand Valve wide open. Close down circulation valve until you get desired flow out of wand.
8 When pump is not running, be sure intake tube is submerged in product. Place wand in 5 gallon pail of water when not in use – this will keep product from drying on wand or thickening within the system, causing blockage or reducing flow of product.

Trouble Shooting

1 IF PUMP DOES NOT START UP: Check air source.
2 IF PUMP CONTINUES TO RUN WHEN ALL VALVES ARE SHUT OFF: Check all connections for leaks. Check all bolts for tightness.

System Cleaning Requirements

1 You must have a 455 gallon drum at least 50% full of water for proper clean-up of pump system. Add 4 to 6 oz. of heavy duty soap to water.
2 Use a 5 gallon pail to catch the clean-out water.
3 Allow pump to run 5 minutes to clean product from pump and wand, flushing into container so clean-up Water can be disposed of properly.
4 After pump and hose/wand have been cleaned of all product, close wand completely, fully open circulation Valve, allow to flush 2 to 3 minutes within drum of water.
5 Proper Clean-up cannot be achieved unless water is pumped through system with air pump for 5 to 10 Minutes (The circulation of water with pump running should be done in the field.)
6 Remove pump/lid from water drum. Flush system with water hose until clean water comes out each opening, including hose/wand. (water hose flush can be done when you return to service yard.)
7 The system should never be stored without proper cleaning, not even over-night.
8 All clean-up materials should be disposed of properly.

"The Pavement Maintenance Specialists"
5226 W Missouri Avenue Glendale Arizona 85301
www.brewercoteaz.com Tel.623-931-3728 Toll 888-931-3728 Fax 623-842-0714 sales@brewercoteaz.com

BREWER COTE® of Arizona

Specifications

Universal Aro-1 Air Operated Double Diaphragm Pump

This air operated double diaphragm pump should be the manufacturers current production model. This unit shall be capable of pumping and applying, without any further equipment modifications, all approved grades of cold applied asphalt rubber sealants, specification joint sealants and fiber modified sealants. All qualified bidders must have and maintain a complete inventory of repair parts as well as having experienced service personnel for this equipment. A factory trained person shall be made available for initial start-up and training in the operation of the pump.

Body Construction
Aluminum – Lube Free

Diaphragm
Buna

Drum Pump Kit
Polypropylene Suction Pipe
Steel Drum Lid w/hinge loading Hatch

Sealant Hose
Hose should be ¾" inside diameter(I.D.) and not less than 25 ft in length, nylon braid reinforced with quick clamp disconnect to the pump. The hose is specifically manufactured for the handling of cold applied petroleum based product

Applicator Wand
The wand applicator shall be constructed of Steel with sufficient strength to stand up to normal day-to-day operation. It shall have two handles, one of which is connected to a quarter turn ball valve used to control flow material. Support handle to be attached to wand. A variety of nozzles are available and attachable to the applicator wand.

Backer Rod Mfg. Inc.

COLD HBR BACKER ROD

As essential element in good joint design is use of a backer rod. A primary function of the backer rod is to act as a bond breaker, preventing three sided adhesion of the sealant at the same time forming the desired cross section of the sealant bead. Failure to utilize a backer rod will allow the sealant to band to the bottom of the joint. This results in excessive stress on the sealant.

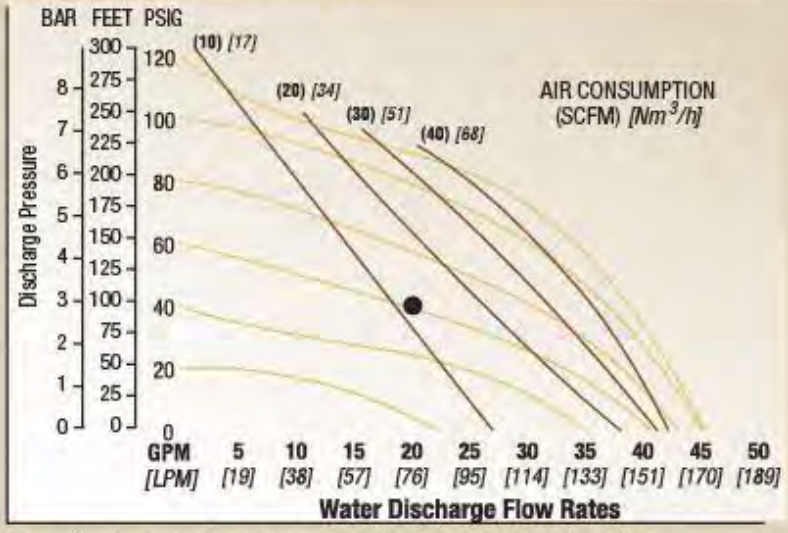
Another function of the backer rod is to control the thickness of the sealant bead. The backer rod should be approximately 25% oversized so that it fits tightly into the joint. A loose backer rod will be pushed deeper into the joint when the sealant is installed and will not provide adequate support for the proper tooling of the sealant. Without this the thickness of the sealant bead cannot be controlled as required. With proper tooling the sealant is pushed down onto the backer rod and firmly against the joint walls. Sealant requires a tight fitting backer rod to control thickness of the sealant bead and to prevent from bypassing the backer rod to the bottom of the joint.

Part Number	Description
#34626	3/8" Cold HBR 3600'/box
#34627	1/2" Cold HBR 2500'/box
#34620	5/8" Cold HBR 1550'/box
#34622	7/8" Cold HBR 850'/box
#34623	1" Cold HBR 550'/box
#34621	1 ½" Cold HBR 420'/box
#34624	1 ¼" Cold HBR 400'/box
#34611	2" Cold HBR 252'/box
#34608	1/4" Cold HBR 6400'/box
#34625	3/4" Cold HBR 1100'/box
#34610	2 ½" Cold HBR 162/box
#34627	3" Cold HBR 102/box
#34628	4" Cold HBR 54/box
#34629	Backer Rod Installer

NOMAD
PERFORMANCE DATA

NPF25
1"

Air Inlet	6 mm (1/4")
Inlet	25 mm (1")
Outlet	19 mm (3/4")
Suction Lift	5.79 m Dry (19')
	8.53 m Wet (28')
Displacement/Stroke	0.34 l (0.091 gal)[1]
Max. Flow Rate	170 lpm (45 gpm)
Max. Size Solids	3.2 mm (1/8")
Height	279 mm (11.0")
Width	267 mm (10.5")
Depth	201 mm (7.9")
Est. Ship Weight	Aluminum 12 kg (26 lbs)
	Stainless Steel 16 kg (36 lbs)



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

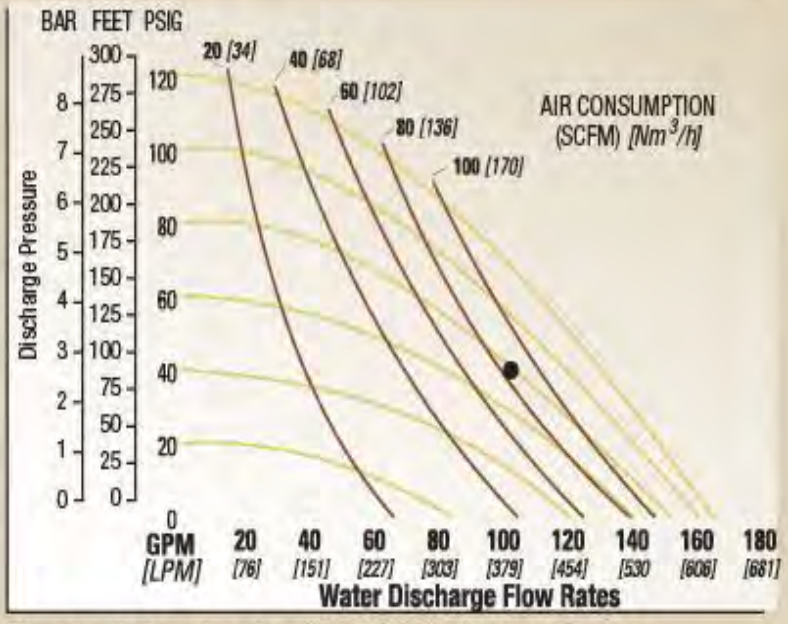
[1]Displacement per storke was calcualted at 70 psig (4.8 bar) air inlet pressure against a 30 psig (2 bar) head pressure

Example: To pump 76 lpm (20 gpm) against a discharge pressure head of 2.7 bar (40 psig) requires 4.1 bar (60 psig) and 22 Nm³/h (13 scfm) air consumption. (See dot on chart).

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.

NPF50
2"

Air Inlet	13 mm (1/2")
Inlet	51 mm (2")
Outlet	51 mm (2")
Suction Lift	6.9 m Dry (22.7')
	8.6 m Wet (28.4')
Displacement/Stroke	2.61 l (0.70 gal)[1]
Max. Flow Rate	623 lpm (164.7 gpm)
Max. Size Solids	6.4 mm (1/4")
Height	668 mm (26.3")
Width	404 mm (15.9")
Depth	343 mm (13.5")
Est. Ship Weight	Aluminum 32 kg (70 lbs)
	316 Stainless Steel 51 kg (112 lbs)
	Ductile 47 kg (104 lbs)



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

[1]Displacement per storke was calcualted at 70 psig (4.8 bar) air inlet pressure against a 30 psig (2 bar) head pressure

Example: To pump 102 GPM against a discharge pressure head 40 psig requires 80 psig and 85 scfm air consuption

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.