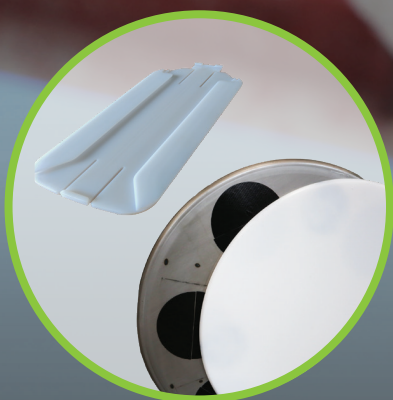
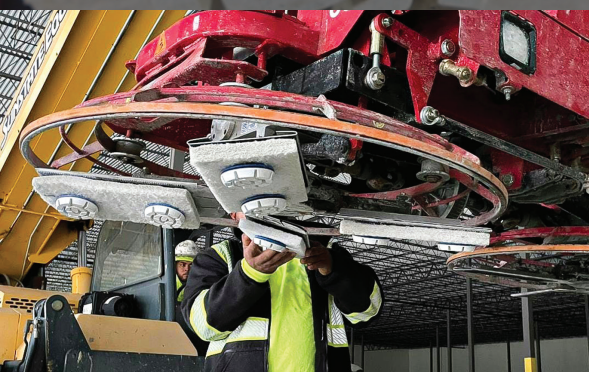


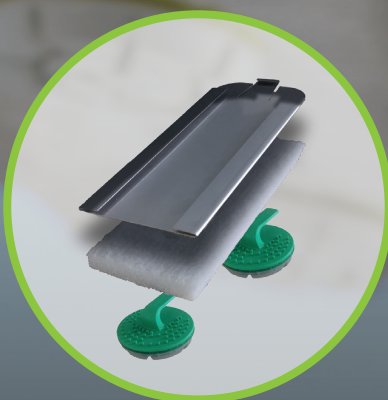


# CONCRIA™ FAST TROWEL POLISHING SYSTEM

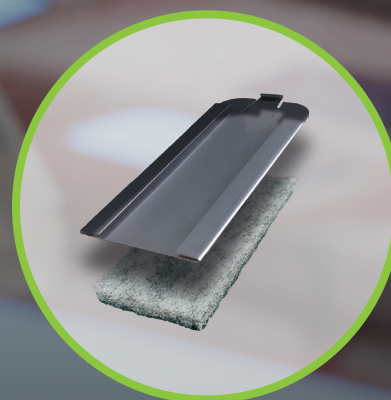
FINISHING, POLISHING & CLEANING WITH THE SAME MACHINE



CONCRIA™  
BLADES & PANS FOR  
FINISHING



CONCRIA™  
FOR POLISHING



CONCRIA™  
DIP FOR  
CLEANING



# ALLEN ENGINEERING IS PLEASED TO INTRODUCE

Its fourth brand, the Concra™ FAST System, which allows you to quickly convert your power trowel into a polishing machine. With Allen's history in the concrete placement and finishing industry and Concra™ reputation as the original trowel polishing solution, we are ready to provide North America with the best polishing system on the market. This system provides a high quality, FAST and easy solution to use by not requiring the use of any tools. This easy-to-use system consists of high-quality diamond discs that are attached by flexible mounting pads, allowing for maximum diamond contact across both high and low spots. Did we mention the chemicals? Concra's line of chemicals for finishing aids, densifying and before sealing the concrete are second to none.



Scan this QR code for more information.

# PROFESSIONAL CONCRIA™ FAST SYSTEM FOR POWER TROWELS

Concra™ Fast system will transform your power trowel into a diamond polishing machine in just five minutes. We can help you to avoid the need for altering your equipment, dealing with long cables, or creating airborne dust, and instead, help you easily polish as much as 10 000 sq ft per day with one 48" ride on power trowel.

## SIZE

14"/ 300 mm for 36" ride on

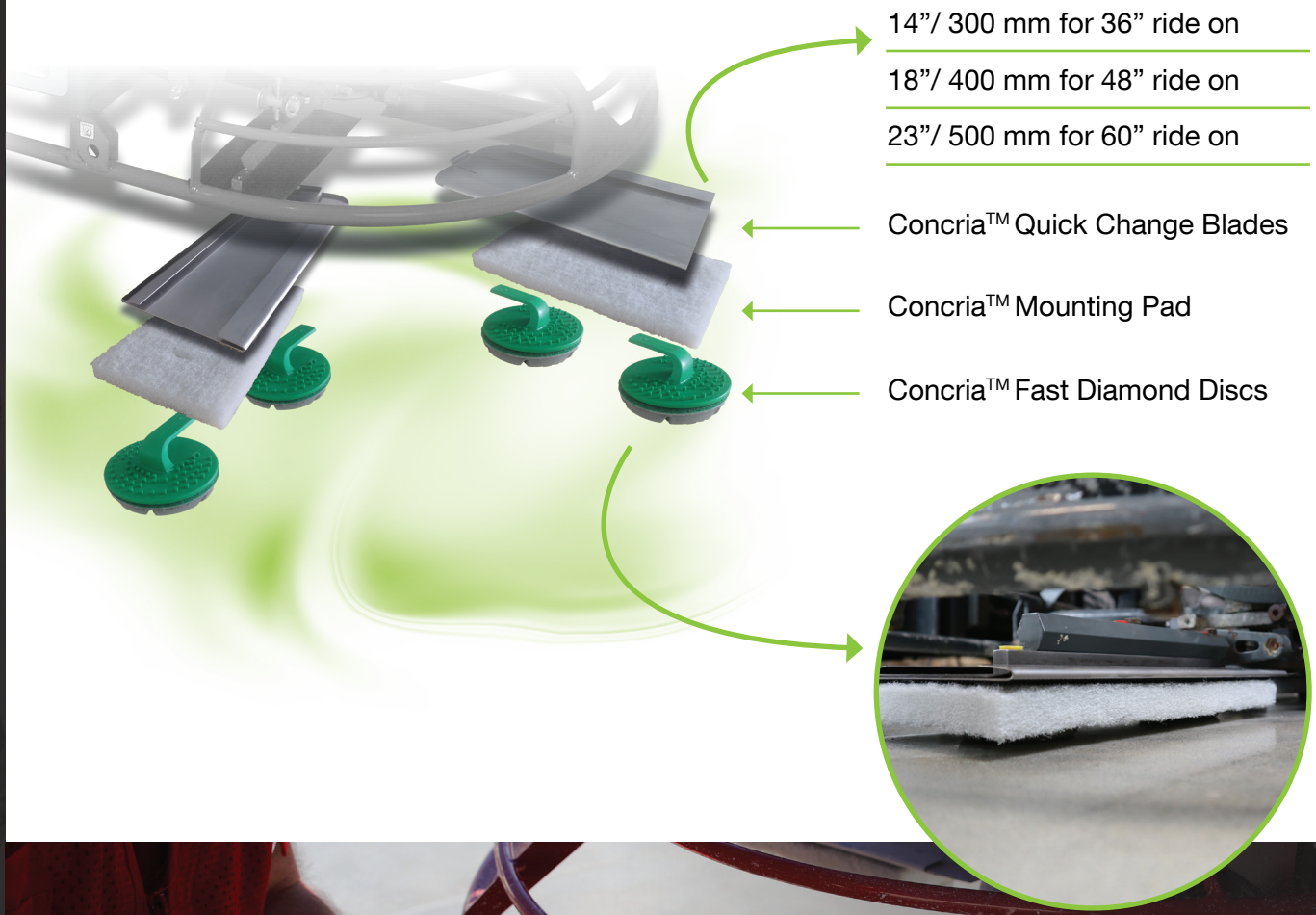
18"/ 400 mm for 48" ride on

23"/ 500 mm for 60" ride on

Concra™ Quick Change Blades

Concra™ Mounting Pad

Concra™ Fast Diamond Discs



## 1 / STEP ONE

Attach diamond discs to the mounting pad through the pre-cut slits

## 2 / STEP TWO

Attach the mounting pads to the Quick-change blade

## 3 / STEP THREE

Slide Quick Change blade to the standard 6" finishing blade



## RECEIVE SUPERIOR QUALITY

Concra™ high-quality diamond discs are attached by flexible mounting pads, allowing for a maximum amount of diamond contact across both high and low spots. This, in turn, creates an exceptional, even scratch pattern.



## SPEED UP CONSTRUCTION SCHEDULES

The Concra™ Fast system may be fast, but it indeed never sacrifices quality. You can expect an extremely high Distinction of Image (DOI) value on a well-finished concrete surface.

We know that construction schedules are very tight, often not leaving enough time for traditional grinding and polishing. Concra allows contractors to create up to 10 000 m<sup>2</sup> of polished concrete in just 7 working days in a free, empty space. Minimal maintenance requirements and long-lasting durability also make Concra™ easy on the wallet, while delivering beautiful flooring at the same time.

### CONCRIA™ FAST SYSTEM

10 000 m<sup>2</sup>

7 STEP PROCESS

Man power



2 x 48" ride-on power trowel



7 Working days



### TRADITIONAL SYSTEM

10 000 m<sup>2</sup>

7 STEP PROCESS

Man power



3 x 32" traditional grinder



33 Working days



# EASIEST TO USE & SMOOTHEST TO DRIVE



THE FASTEST WAY TO POLISH CONCRETE

# CHOOSE THE POLISHING RESULT

We designed the Concria™ system to benefit your facility in numerous ways. Not only does it meet the needs of almost any industrial and public floor, but you also can use it to rejuvenate older concrete, bringing new life to tired and worn surfaces. Concria™ can also remove curing agents, bond breakers, or tire marks from your concrete, all without interrupting your busy schedule.

## 7 STEP / SALT AND PEPPER FINISH

An attractive “salt and pepper” finished floor creates a clean and professional image.



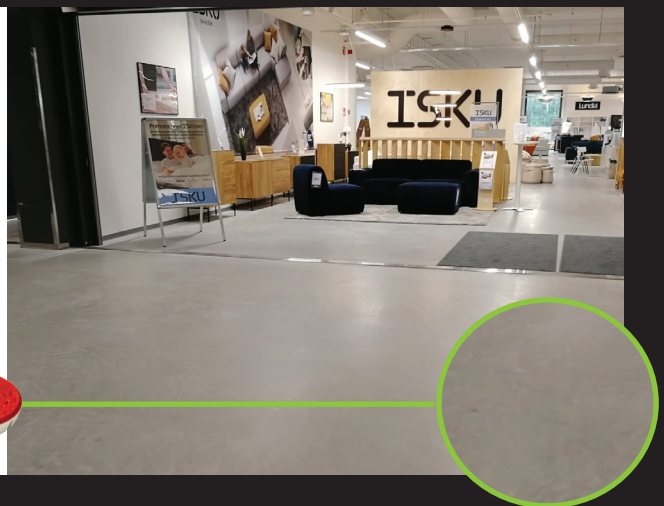
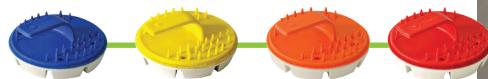
## 3 STEP / CREAM POLISH FINISH

Cream polish finish creates a cloud-like floor with a high level of gloss. Aggregates are not exposed, but the concrete paste is instead polished without grinding it away.



## 4 STEP / SATIN FINISH

Satin finished floor will make your concrete beautiful, durable, and suitable for public floors where a high gloss is not wanted.



# CONCRIA™ NANO FINISH ADVANCED NANO SILICA CONCRETE LUBRICATOR AND POLISHING AGENT

## EASIER FINISH UNDER ADVERSE CONDITIONS

Concra™ Nano Finish is ready to use surface lubricant, allowing easier concrete finishing when floating with Concra™ Plastic Float pans and Concra™ Slide Blades.

Concra™ Nano Finish increases cream to enable easier, better finishing and extended workable time under adverse conditions (hot, dry, sunny & windy). A concrete lubricator makes the surface much more durable than finishing with water. According to the water retention efficiency test, Nano Finish slows evaporation by nearly 20%. It protects the concrete from a range of moisture loss-related defects like delamination, plastic shrinkage, map-cracking, and other surface defects.

## DENSIFY CONCRETE SURFACE DURING THE CASTING

The surface, which is treated with nano silica during the finishing with blades, doesn't need any silicate (lithium, sodium, potassium) treatment later. Nano Finish also minimizes the need for grouting as the surface is exceptionally dense after finishing.

## BENEFITS

- Increase cream for a better, easier and faster finish
- Increase gloss
- Increase abrasion resistance
- Minimize the risk of plastic shrinkage, map-cracking and other surface defects
- Densify concrete surface during the placement, no need to go to the site again
- Getting dustproof surface
- Extend workability of the slab surface
- Achieve best possible finish
- Eliminate the need for additional water
- Receive lower RA and higher DOI numbers
- No VOC





## INCREASE ABRASION RESISTANCE

Abrasion resistance is an important performance requirement in commercial, warehouse and industrial floors. Nano Finish provides a substantial improvement in abrasion resistance and will significantly improve the density and durability of the surface. Nano Finish treated concrete surface rendered permanently harder and dense for its lifetime.

## GLOSSIER AND SMOOTHER SURFACE

Spraying Nano Finish during the finishing with Concria™ Slide Blades will contribute to a greater amount of cement particle-to-particle packing that contributes to an increase in gloss, smoothness, hardness, and abrasion resistance. The finished concrete surface can be as smooth as polished with 3000# diamonds.

## SPEED UP POLISHING SCHEDULES

Concrete surface which treated with Concria™ Nano Finish, can be polished just seven days after casting.





## HARDENS & DUSTPROOFS CONCRETE SURFACES IMMEDIATELY

- ✓ Hardening and dust proofing process is extremely fast, it is an hour instead of months
- ✓ Reduces concrete dusting and creates a safer working and living environment
- ✓ Provides better abrasion resistance than conventional densifiers like sodium or lithium

## EASY & FAST APPLICATION

- ✓ No scrubbing. No flushing. No caustic wastewater
- ✓ Lower application costs
- ✓ May be applied to broom finished, steel troweled, power troweled, polished concrete or burnished concrete finishes



Grit 25#  
STEP 0  
BLACK



Grit 50#  
STEP 1  
BLUE



Grit 100#  
STEP 2  
YELLOW



Concra™  
Trowel Hard  
Densifier



Grit 200#  
STEP 3  
ORANGE



Grit 400#  
STEP 4  
RED



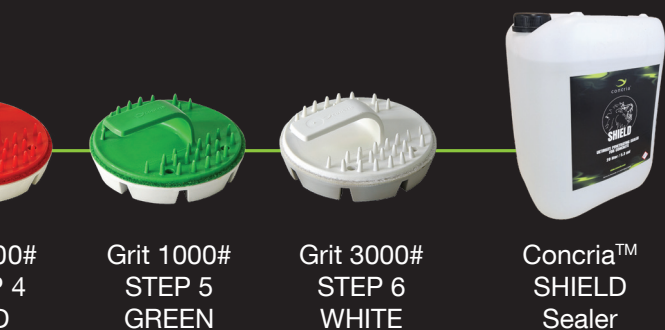
# CONCRIA™ POLISH HARD XL ADVANCED NANO SILICA DENSIFIER

Concra™ Polish Hard XL is Ultimate Nano Silica Densifier and hardener for concrete, dry shake hardeners and low-lime overlays! Polish Hard XL is dispersions of amorphous silica particles in water and particles are below 10 nm (Nanometer). Because of reactive nano-size particles, Polish Hard XL can deliver pure silica into the pores of the concrete and form rapidly new CSH from calcium hydroxide, which increases concrete density and strength, traditionally used silicates like (Lithium or Sodium) densifiers can't do this. Another benefit to using Polish Hard XL is that it won't leave behind any mineral deposits that must be cleaned after application. This allows for faster application and time savings.

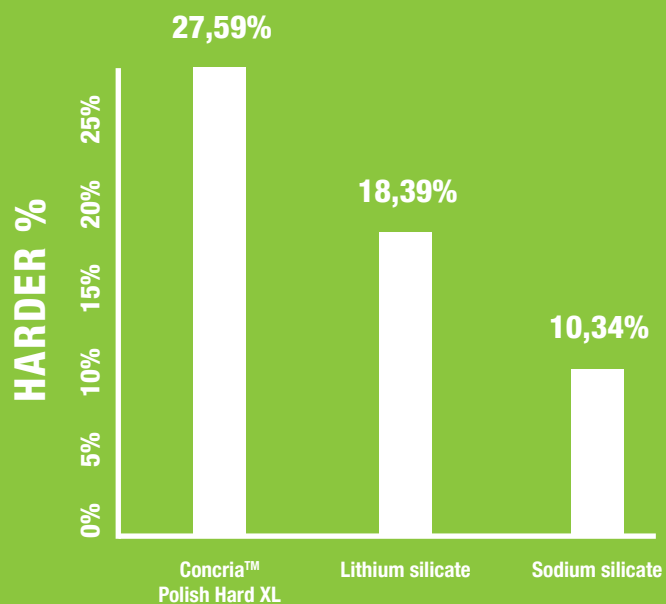
## GREEN & PLANET SAFE

- ✓ Contributes to LEED® points
- ✓ Water-based, no VOCs

DOES NOT CONTRIBUTE TO  
SURFACE ASR OR PROMOTE  
CRAZING



## BÖHME ABRASION RESISTANCE (DIN 52108)





# CONCRIA™ SHIELD

PROTECT CONCRETE FLOOR  
AGAINST FREEZE-THAW AND  
SALT DAMAGE

## HARMONIZED TECHNICAL SPECIFICATION

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONIZED TECHNICAL SPECIFICATION
Depth of penetration	> 5 mm	EN 1504-2 2005
Freezing-thaw cycling with de-icing salt immersion	After 10 cycles no change, After 20 cycles no change, Final assessment no change	EN 1504-2 2005
Adhesion to the ground after 20 freeze-thaw cycles	2,4 MPa	EN 1504-2 2005
Water-vapour transmission of the substrate	Sd, m <0,5	EN 1504-2 2005
Fire classification	A1	EN 1504-2 2005
Determination of capillary absorption and water permeability	0,07 kg (m <sup>2</sup> x 0,5 h)	EN 1504-2 2005
Determination of thermal compatibility – storm, rain cycles	No blister, cracks and debris	EN 1504-2 2005

# VOC-COMPLIANT HYDROPHOBIC PENETRATING SEALER

Concra Shield™ is a water-based, VOC-compliant hydrophobic penetrating sealer. It provides excellent protection against freeze-thaw and salt damage to concrete, making it ideal for protecting concrete at garage floors, sidewalks, patios, or even roads that are exposed to deicing salts. It also improves the chemical resistance of concrete. Concra Shield™ penetrates into the concrete, where it chemically reacts below the surface without changing the look or color of the concrete.

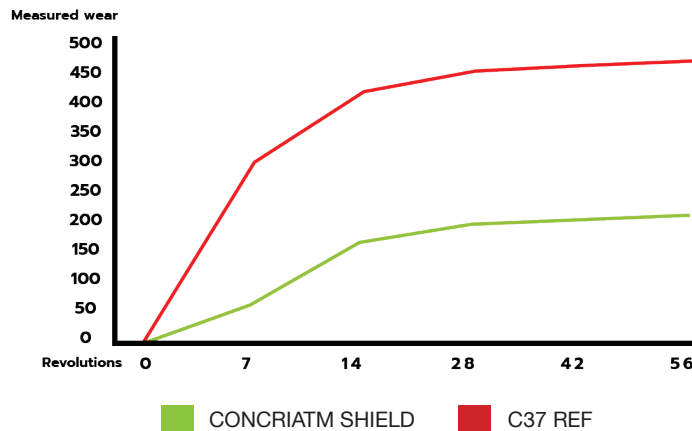
## DEEPLY SEATED PROTECTION

Concra Shield™ reacts with atmospheric carbon dioxide to form a water-repellent surface barrier. Crystalline structure stops the transport of water in the concrete surface but lets vapors pass through (diffusion). Because the protection is deeply seated, it is insensitive to external influences such as abrasion and impacts. Shield leaves no topical film on the surface and will wear away only if the substrate itself wears away.

## TRADITIONAL DENSIFIERS ARE NOT ENOUGH

Typically parking garage floors are treated only with silicates (lithium or sodium). They are designed to increase the strength and density of the concrete by forming a permanent calcium silicate hydrate (CSH) barrier within the pores. Silicates do NOT repel water and other liquids off the surface and, for that reason, offer little to no protection against freeze-thaw damage because water will still be absorbed into the pores where it can freeze. If you also need hardening and dust-proofing concrete surface, you can apply either Concra™ Trowel Hard or Concra™ Polish XL nano-silica densifier.

### FREEZE-THAW RESISTANCE WITH DE-ICING SALTS, STANDARD CEN/TS 12390-9



## THE FINISHER'S CHOICE

Concra™ Plastic Floating Pans remain today the finisher's choice when the high FF Numbers (Floor Flatness) are specified on concrete floors and when an aesthetic uniform surface is needed. Plastic pans are attached to standard steel pans easily and fast with a patented velcro fastener system.

## FIT EASILY TO EVERY POWER TROWEL

Thanks to the patented Concra™ Hook&Loop Fastener system, you can attach Concra™ plastic pans over your standard metal pans with Hook&Loop Fasteners. You can quickly change plastic pans to new ones. Plastic pans are available in all standard power trowel sizes from 24" edger up to 60" ride-on trowel pans.

## ECONOMY AND HIGH WEAR RESISTANCE

Concra™ Plastic pans composite material provides more outstanding durability than steel and is often cheaper per sq ft than metal pans.

## SMOOTHER AND UNIFORMLY FINISHED SURFACE

Plastic pans bring fewer aggregates on top while floating and minimize aggregates popouts and reduce the chance of surface delamination. Plastic pans eliminate the risk of leaving burn marks and create a more uniform color surface than steel pan.

## DENSER SLAB WITH ACOUSTIC PRESSURE

Concra™ Plastic float pans have an acoustic impedance (ratio of the acoustic pressure) that matches the concrete, thereby imparting its energy into the concrete mass, which causing the concrete to set from the bottom of the slab to the top while maintaining an open surface to allow bleed water to escape during finishing.

# CONCRIA™ PLASTIC FLOAT PANS FLATTER, FASTER, MORE UNIFORM



## HIGHER FF NUMBERS

Steel pans dig deeper than plastic pans and move more surface mortar/cream, making the floor less flat. With plastic float pans, you also minimize the risk of troughing better than with steel pans if the concrete is too soft or if you hit a wet spot. Plastic provides an easier transition from wet to dry areas when floating.

## FASTER FINISHING TIME

Concria™ Plastic float pans provide a faster finish time as plastic doesn't dig deep as steel, and you can start a little bit earlier with plastic pans.



# PRODUCT LIST

## CONCRIA HAND GRINDER PAD

PART NO.	MODEL NO.	DESCRIPTION
077306	CONHG5ADP	Adapter, Concria Hand Grinder 5"
077307	CONHGP50	Pad, Concria Hand Grinder 50#
077308	CONHGP100	Pad, Concria Hand Grinder 100#
077309	CONHGP200	Pad, Concria Hand Grinder 200#
077310	CONHGP400	Pad, Concria Hand Grinder 400#
077311	CONHGP1000	Pad, Concria Hand Grinder 1000#
077312	CONHGP3000	Pad, Concria Hand Grinder 3000#

## CONCRIA POLISH AND SHIELD

PART NO.	MODEL NO.	DESCRIPTION
077313-5	CONPH5GAL	Polish Hard XI Densifier, Concria 5 Gal
077314-5	CONNANO5GAL	Nano Finish Densifier, Concria 5 Gal
077315-5	CONSHD5GAL	Shield Sealer, Concria 5 Gal
077316-5	CONSHD+5GAL	Shield Plus, Concria 5 Gal

## CONCRIA PLASTIC BLADES

PART NO.	MODEL NO.	DESCRIPTION
077273-4	CONSB10X4	Trowel Blade, Concria Plastic Slide 10" (Set of 4)
077272-4	CONSB14X4	Trowel Blade, Concria Plastic Slide 14" (Set of 4)
077271-5	CONSB18X5	Trowel Blade, Concria Plastic Slide 18" - Set of 5

## CONCRIA PLASTIC PANS

PART NO.	MODEL NO.	DESCRIPTION
077274	CONPLPAN24	Pan, Concria 24" Plastic Pan
077275	CONPLPAN36	Pan, Concria 36" Plastic Pan
077276	CONPLPAN46	Pan, Concria 46" Plastic Pan
077277	CONPLPAN60	Pan, Concria 60" Plastic Pan
077278-24	CONFSTNLOOP	Fastn, Concria Loop For Plastic Pan (Set of 24)
077279-24	CONFSTNHOOK	Fastn, Concria Hook for Plastic Pan (Set of 24)



## 24" POLISHING TOOLING

PART NO.	MODEL NO.	DESCRIPTION
077280	CONMP24	Pad, Concria Mounting 24" (Set Of 1)
077281-6	FAST25-6	Pad, Concria Fast 0 Black - Grit 25# (Bag Of 6)
077282-6	FAST50-6	Pad, Concria Fast 1 Blue - Grit 50# (Bag Of 6)
077283-6	FAST100-6	Pad, Concria Fast 2 Yellow - Grit 100# (Bag Of 6)
077284-6	FAST200-6	Pad, Concria Fast 3 Orange - Grit 200# (Bag Of 6)
077285-6	FAST400-6	Pad, Concria Fast 4 Red - Grit 400# (Bag Of 6)
077286-6	FASTF1000-6	Pad, Concria Flexi Step 5 Green - Grit 1000# (Bag Of 6)
077287-6	FASTF3000-6	Pad, Concria Flexi Step 6 White - Grit 3000# (Bag Of 6)

## 36" POLISHING TOOLING

PART NO.	MODEL NO.	DESCRIPTION
077288-4	CONQCB14X4	Blade Change, Concria Quick Adapter 14" (Box of 4)
077289	CONMP14	Pad, Concria 14" Mounting (Set of 1)
077290-16	FAST25-16	Pad, Concria Fast 0 Black - Grit 25# (Bag of 16)
077291-16	FAST50-16	Pad, Concria Fast 1 Blue - Grit 50# (Bag of 16)
077292-16	FAST100-16	Pad, Concria Fast 2 Yellow - Grit 100# (Bag of 16)
077293-16	FAST200-16	Pad, Concria Fast 3 Orange - Grit 200# (Bag of 16)
077294-16	FAST400-16	Pad, Concria Fast 4 Red - Grit 400# (Bag of 16)
077295-16	FLEX1000-30	Pad, Concria Flexi Step 5 Green - Grit 1000# (Bag of 16)
077296-16	FLEX3000-30	Pad, Concria Flexi Step 6 White - Grit 3000# (Bag of 16)

## 46" POLISHING TOOLING

PART NO.	MODEL NO.	DESCRIPTION
077297-5	CONQCB18X5	Blade Change, Concria Quick Adapter 18" (Box of 4)
077298	CONMP18	Pad, Concria 18" Mounting (Set of 1)
077299-30	FAST25-30	Pad, Concria Fast 0 Black - Grit 25# (Bag of 30)
077300-30	FAST50-30	Pad, Concria Fast 1 Blue - Grit 50# (Bag of 30)
077301-30	FAST100-30	Pad, Concria Fast 2 Yellow - Grit 100# (Bag of 30)
077302-30	FAST200-30	Pad, Concria Fast 3 Orange - Grit 200# (Bag of 30)
077303-30	FAST400-30	Pad, Concria Fast 4 Red - Grit 400# (Bag of 30)
077304-30	FLEX1000-30	Pad, Concria Flexi Step 5 Green - Grit 1000# (Bag of 30)
077305-30	FLEX3000-30	Pad, Concria Flexi Step 6 White - Grit 3000# (Bag of 30)

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