KGS
Swiss Diamond Technology®



DIAMOND TOOLS

Floor Industry

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PROUD MANUFACTURERS
INNOVATORS SINCE 1952

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A HISTORY OF INNOVATION



KGS DIAMOND, with its headquarters in Switzerland, is a world leading abrasives innovation company since 1952.

KGS not only patents its newest inventions and innovations on a regular basis but also controls unique and automated, proprietary production technologies, which guarantee an attractive cost base giving us the ability to compete with any manufacturer globally.

Further Benefits of these abilities are a high reliability and reproducibility of our products. All this translates into "Swiss Diamond Technology®".

Our values are our commitment to you with State of the Art Products and Services, Reliability and Accountability.

I personally stand by our commitment, so do not hesitate to contact me for comments and suggestions at office-sf@kgs.swiss

Yours sincerely,

Sandro Ferronato
President & CEO



KGS DIAMOND, a Technology driven company



The history of **KGS DIAMOND** starts in **1952** when Natale Ferronato founds a company near Zürich, Switzerland, producing cold bonded quality abrasives, mainly for grinding and polishing applications: Natale Ferronato & Co. In the next years the production activities expand with the introduction of sintering production methods.

In **1970** Natale Ferronato passes the management responsibility to his wife Maryse Ferronato, who is succeeded in **1980** by Sandro Ferronato, today's President and CEO. In **1985** the company is renamed to **KGS DIAMOND.** In the next years a strong international development starts and the company opens sales offices around the world and acquires new production facilities.

KGS is a globally active company – with Swiss roots. In order to be close to our customers we have a global sales and distribution network with **20 companies** in 15 countries in Europe, North America, Middle East, and Asia providing engineered solutions for hard to grind & brittle materials in Aerospace, Glass, Porcelain, Electronics, Automotive, Construction, Stone and Floor related markets. **6 manufacturing sites** – located in Switzerland, The Netherlands, Hungary, Portugal, India and the United Arab Emirates – providing a wide range of diamond tools, flexible diamond abrasives and premium coated abrasives.

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Pictogram legend

Technical specifications

Machine type	Diameter	Dimension	Bore	Adapter
Height	Diamond height	Packing unit	Use dry	Use wet

Product overview

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Concrete



Concrete grinding & polishing

KGS DIAMOND offers a variety of solutions for grinding and polishing of concrete floors, wet or dry. Edging tools for hand-held machines, planetary grinding machines and high speed burnishers.

KGS MACH - Transition tools

Specifically formulated for use under planetary grinding machines to cut like metal bonds and provide exceptional life of up to 750m^2.

Benefits

- Fast cutting without leaving deep scratches commonly associated with metal bonds tools
- Diamonds do not glaze up when working on hard concrete surfaces
- KGS MACH tools can replace metal bonds on 90% of the floor surfaces
- KGS MACH tools will cut hard, medium and densified soft concrete
- A perfect transition tool from conventional metal tools to KGS SEKTOR DRY
- Cure & seal compound removal is easy with KGS MACH tools

KGS MACH 0
Very aggressive tool, removing coatings



KGS MACH 1
Aggressive tool for medium to hard concrete.



KGS MACH 2
Aggressive tool for medium to hard concrete. Follows the KGS MACH 1.



KGS MACH 3
Aggressive tool for medium to hard concrete. Follows the KGS MACH 2.



KGS MACH 3P
First cut or transition tool prior to KGS SEKTOR DRY polishing.



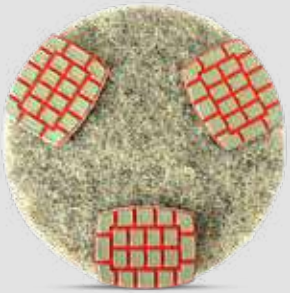
Product specifications

	Grit	Colour	Art. no.
MACH 0	30	Light blue	18498
MACH 1	40	Grey	18495
MACH 2	50	Brown	18496
MACH 3	80	Black	18497
MACH 3P	100	Yellow	19099

Planetary grinding machines | Use dry | ∅ 75 mm | 1 pcs.

KGS SEKTOR DRY Long hook Hone & polish tools

The fastest, easiest and most versatile concrete polishing system on the market. Under a planetary grinder they gives an unparalleled finish.



Natural fiber pad with 3 KGS SEKTOR DRY grit 400

Benefits

- KGS SEKTOR DRY tools are the only tools you will need, suitable for hard, medium and soft concrete floors for every concrete surface.
- KGS SEKTOR DRY tools combines reduced labour cost with an excellent tooling life.
- Provides the lowest cost per m^2 for a dry polishing system.
- KGS SEKTOR DRY tools effectively close the surface resulting in high gloss readings
- No special pad driver required. The heavy harpoon hook allows for the use a standard natural fiber pad.



Grit 200



Grit 400



Grit 800



Grit 1500



Grit 3000

Product specifications

Grit	Colour	Art. no.
200	Blue	19021
400	Red	19022
800	White	19023
1500	Yellow	19024
3000	Green	19025

Planetary grinding machines Use dry

75x60 mm 3 mm 1 pcs.

KGS Spacer Loop Red/Foam

Size	Art. no.
230	19220
280	19219

1 pcs.





KGS ROCKY - Overlay polishing pad system

KGS ROCKY dry polishing disc system are the perfect tools for polishing high density overlays and the polish resoration of previously polished floors that have dulled due to heavy foot traffic.



KGS ROCKY discs are suitable for cement and resin based monolithic floors. Designed primarily for use on hard overlays, they can also be used for a cream polish of normal concrete and previously ground terrazzo. The semi rigid structure of the disc delivers a very quick, orange peel free polish, even on floors that are not completely flat. Designed for use under heavy grinders set at maximum head speed. Use in grit sequence from grit 60 through 3000 (stop at any grit when desired result is achieved). Operators can proceed at a normal walking pace (2.5 km/h).

The disc construction consists of abrasive resin segments bonded to a flexible backer then mounted to a non-woven nylon pad. This system makes them easy to use with harpoon hook drivers. A separate mounting spacer is available if required.

The KGS ROCKY discs will produce a high polish with high clarity in record time. Single passes are normally all that is required. It is not necessary to limit forward progress either. The abrasive segments are colourless so there is no colour transfer to the floor.

Product specifications

Grit	60	100	200	400	800	1500	3000
Ø230 mm	27412	27413	27414	27415	27416	27417	27418
Ø 280 mm	32570	32571	32572	32573	32574	32575	32576

Planetary grinding machines Use dry 1 pcs.

KGS Oled HH pad - Cream polishing pad system



The KGS Oled HH system is available in the grits 60, 100, 200, 400, 800, 1500 and 3000.

The pads are perfect light duty for honing and polishing concrete cream with minimal small aggregate exposure. Oled pads are the perfect solution for renovating polish on lightly worn and previously polished concrete.

Product specifications

Grit	60	100	200	400	800	1500	3000
Ø125 mm	33721	33722	33723	33724	33725	33726	33727
Ø180 mm	33707	33708	33709	33710	33711	33712	33713
Ø230 mm	33735	33736	33737	33738	33739	33740	33741
Ø280 mm	33693	33694	33695	33696	33697	33698	42349

Planetary grinding machines Use dry 1000 rpm 1 pcs.



KGS Hybrid® C Flap disc

KGS Hybrid® C Flap discs are ideal for removing the thin "cure and seal" layer and as an initial cut on old or new concrete. The flap discs are suitable for all cementitious surfaces, like concrete and terrazzo. These tools are designed to work on hand grinders with arbors either M14. The disc diameter is 115 mm and is supplied fitted with a strong aluminium threaded adapter for quick and easy tool fitting.

The discs are based on a robust precision moulded plastic body which reduces vibration and provides minimum flexibility for comfortable ease of use. They easily fit the majority of hand tools that are designed for use with dust extraction shrouds. The discs are safety tested and comply with EN-norms. Recommended speed is between 1500 and 3000 RPM.

Benefits

- Fit common hand-held angle grinders with an adjustable RPM
- Ideal for flattening and smoothing uneven edges
- Polish with KGS ENDURO pad (p. 20) or KGS Oled HH pad (p.13) to achieve a high polish
- High stock removal without gouging associated with a cup wheel
- Balanced construction to minimize vibration at high speed and promote ease of use

Product specifications

Grit	Bond	Art. no.
60	Metal	18926
120	Metal	18927
200	Metal	18928
400	Resin	18929
800	Resin	18930



Metal bond (grit 60, 120 & 200)



Resin bond (grit 400 & 800)

Hand-held machine | Use wet or dry | ∅ 115 mm | M14 | 1 pcs.

KGS Speedline® ORG



The original standard in stone and concrete polishing industries. Excellent in quality and performance.

This KGS technology is exceptional for dry polishing of non coloured concrete where its dark coloured resin leaves a natural concrete coloured finish.

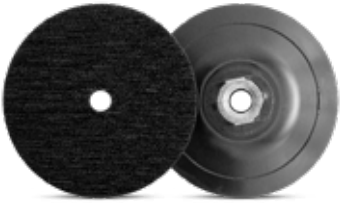
Product specifications

Grit	60	120	200	400	800	1500	3000	100000
Art. no.	28475	28476	28477	28478	17895	17896	17897	17898

Hand-held machine | Use dry or wet | ∅ 125 mm | 2,5 mm | 1 pcs.

KGS back-up pads QRS M14

Back-up pad with velcro connection. Ideal for KGS DIAMOND polishing discs. The micro hook ensuring strong pad adhesion. There is a hole for center water feed. The back-up pad is also avalaible with 20 mm industrial foam, for a softer grind.



Type	Art. no.
M14	41187
M14 with 20 mm extra foam	41192

∅ 125 mm | M14 & QRS / Velcro® | 1 pcs.

KGS Swiflex® 4 step edge polishing system

KGS Swiflex® Hand edging discs are suitable for all cement and resin-based surface such as concrete and terrazzo. The first two grits (80 & 200) are used for rapid stock removal and levelling of the edges. The following two grits (400 & 800) yield a medium to high, scratch free polish.

The discs are based on a robust precision moulded plastic body which reduces vibration and provides minimum flexibility for comfortable ease of use. They easily fit the majority of hand tools that are designed for use with dust extraction shrouds. The discs are safety tested and comply with EN-norms. Recommended speed is between 1500 and 3000 RPM.

Benefits

- Fit common hand-held angle grinders with an adjustable RPM
- Ideal for flattening and smoothing uneven edges. Polish with KGS ENDURO pad (p. 20) or KGS Oled HH pad (p.13) to achieve a high polish.
- High stock removal without gouging associated with a cup wheel
- Balanced construction to minimize vibration at high speed and promote ease of use

Important

- Concrete dust contains silica and is a known carcinogen, appropriate PPE is recommended
- Always use the appropriate PPE equipment, suitable to the task, (hand, eye, ear and breathing protection)
- Use the disc flat or at a very slight angle, to prevent uneven or premature wear
- Never remove the aluminium adapter, as it is one time use part of the tool
- Use in well ventilated areas

Grind & polish in 4 steps

Step 1 - Grit 80 (metal bond)

Sealer removal and levelling.

Step 2 - Grit 200 (metal bond)

Coarse scratch removal and further surface refinement.

Step 3 - Grit 400 (resin bond)

Smooth honed surface.

Step 4 - Grit 800 (resin bond)

High honed surface.

*Final polish achieved with Flexis pads 1500g and 3000g (p. 31)



Step 1 - Grit 80



Step 2 - Grit 200



Step 3 - Grit 400



Step 4 - Grit 800

Product specifications

Grit	Color	Art. no.
80	Orange	27432
220	Blue	27433
400	Red	18884
800	White	18885

Hand-held machine Use dry ∅ 125 mm
M14 1 pcs.

KGS Swiflex® Cobra

For excessive unevenness or where large amounts of stock needs to be removed, The KGS Swiflex® Cobra disc can be used as an initial step. These are very aggressive and care is needed to prevent gouges being put into the floor surface.



Hand-held machine Use dry ∅ 125 mm
M14 1 pcs. **Art. no.** 17692





CONCRETE WET

KGS Aqua™

The KGS Aqua™ system is designed as a 3 step wet grinding system for concrete floors. Working wet eliminates harmful airborne dust particles. The KGS Aqua™ system in grits 50, 120 & 400 are excellent for removing material and leaving a very smooth surface, ready for final polishing.

The KGS Aqua™ tools are followed by the 800g and 1500g KGS DRY sektors (p. 10 or the KGS ENDURO™ (p. 20) or KGS FLEXIS® pads (p. 29) to achieve a beautiful shine. The KGS Aqua™ tools are used under planetary grinding machines, in sets of 9 (3 per head).

Planetary grinding machines Use wet

Ø 60 mm 8 mm 1 pcs.

Product specifications

Grit	Art. no.
50	32465
120	32466
400	32470



The most common working method on hard concrete is

- 3 wet steps with KGS Aqua™ (grits 50, 120 & 400)
- Followed by KGS SEKTOR DRY (grits 800 & 1500 (p. 10)
- Then a final pass with a high speed burnisher, using a KGS ENDURO™ (p.20) or a KGS FLEXIS® pad (p.29) grit 3000 or 8000

DRY BURNISHING PADS

KGS ENDURO™ - High speed burnishing pads

Dry floor burnishing pad system for use under high speed burnishers. The pad is constructed from a blend of natural fibers and nylon to deliver a pad having high structural integrity when used at high speeds of more than 2000rpm.

Ideal for restoring and maintaining a high polish on concrete, overlays, and terrazzo. The pad generates moderate heat that assists the curing of "guard" products.



Recommended use

On hard flat floors. Best results when the machine runs with a RPM of 800 or more. Caution should be taken not to overwork the coarse grits to avoid the development of an uneven orange peel texture.

■ High speed burnisher Use dry

Benefits

- Renewing concrete polished floors
- Engineered to be durable and fast
- Exceptional life
- Low tooling cost per m^2
- Pad is impregnated with micro abrasive containing heat resistant resin to produce a high polish and maintain or renew the "wet look" finish

Grit	1500	3000	8000
Ø6” / 152 mm	40895	40896	40897
Ø7” / 178 mm	33099	33100	33104
Ø8” / 203 mm	17422	17423	17454
Ø9” / 230 mm	17447	17448	17449
Ø10” / 254 mm	40901	40902	40903
Ø11” /279 mm	27551	38361	17425
Ø12” / 305 mm	40904	40905	40906
Ø13” / 330 mm	40907	40908	40909
Ø20” /508 mm	40737	32396	31293
Ø21” / 533 mm	17451	17452	17453
Ø24” / 610 mm	31740	29165	32403
Ø27” / 686 mm	17412	38362	32385
Ø28” / 711 mm	40910	40911	40912
Ø30” / 762 mm	40913	40914	40915

Marble



KGS DIAMOND offers different tools for wet grinding and polishing of marble floors depending upon the equipment used.

The KGS WET SEKTOR for single head machines, lightweight planetary grinders and scubber dryers. KGS SPEEDTEC™ M is ideal for use under heavyweight planetary grinders.

KGS SPEEDTEC™ M

The KGS SPEEDTEC™ M tool is designed for wet polishing of marble using planetary floor grinding machines. Machines from 150 kg to 400 kg can be used to bring the best gloss and depth to your marble floor.

Product specifications

100 Grit 100 (black) for heavy scratch removal and surface smoothing and levelling

Art. no. 18450



200 Grit 200 (blue) develops a more refined smooth honed surface

Art. no. 18451



400 Grit 400 (red) develops a high hone with some light reflection

Art. no. 18452



800 Grit 800 (white) develops a light polish

Art. no. 18453



1500 Grit 1500 (yellow) develops a medium polish

Art. no. 18454



3000 Grit 3000 (green) develops a high polish

Art. no. 18455



Planetary machines | Use wet | ∅ 60 mm | 12 mm | 9 pcs.

KGS WET SEKTOR

The KGS WET SEKTOR is available with either QRS loop or QRS long hook and are suitable for wet grinding and polishing of marble under a wide variety of floor grinding machines. The long hook version mounts directly under a standard non-woven floor pad for ease of use. The loop version requires a Velcro hook drive plate.

The KGS WET SEKTOR tools will work on slow and fast speed, single head, multiple head planetary and power trowel machines. This versatility makes them a perfect choice for a fast polishing process which produces an outstanding polish with great clarity and gloss meter readings above 80. If a higher level of polish is required, this can be achieved using a KGS ENDURO™ 8000g pad under a high speed burnisher.

Available in 50, 80, 100, 200 400, 800, 1500 & 3000 grit sizes. For planetary machines, a minimum of three tools per head is required but 4 per head are often used. For single head machines, the number of tools required will depend upon the diameter of the driveplate. Typically a 430mm / 17" driveplate will require a minimum of 5 SEKTOR pads spread equidistant around the circumference. On heavy weight machines, increase the number of tools for longer life.



Product specifications

Grit	50	80	100	200	400	800	1500	3000
Qrs loop	19074	19075	19076	19077	19078	29214	29215	29216
Qrs long hook	19079	19080	19081	19082	19083	19084	19085	19086

■ Single head & planetary machine Use wet 75x60 mm THK ≒ 6 mm


Grit 50


Grit 80


Grit 100


Grit 200


Grit 400


Grit 800


Grit 1500


Grit 3000







Floor renovation system

The perfect tool combination for natural stone floor renovation. KGS Speedline® MM-2A and KGS FLEXIS® ultra fine grit 8000 come together to create the fastest renovation system for marble and soft stone floors.

Step 1 to 5

KGS Speedline® MM-2A for efficient and fast polishing. Resin bond diamond polishing discs.

Step	Art. no.
1	31615
2	31616
3	31617
4	31677
5	36451

Single head machine Use wet

∅ 100 mm ⌀ 15 mm 3 pcs. (prices per box)



Step 6

KGS FLEXIS® grit 8000, see page 32.

Floor Cleaning & Maintenance



Cleaning & Maintenance

KGS DIAMOND offers the special KGS FLEXIS® and KGS FLEXIS® HD pads for floor cleaning and maintenance. Can be used on floors including concrete, marble, terrazzo, unglazed ceramic tile, vinyl, linoleum etc.

KGS FLEXIS® - Diamond floor pads

KGS FLEXIS® technology for floor cleaning and maintenance combines high quality materials, science, practical experience and the spirit of "Swiss Diamond Technology®", delivering the very best solutions for customers.

KGS engineers have worked with the world leaders in non-woven fiber technology to create a revolutionary cleaning pad material that provides the optimum balance of strength, durability and softness. The strength & durability of this material gives a very long lifetime under a broad range of working conditions. These qualities also allow the consumer to "push" the pad aggressively, working faster than normal, saving time & money. The "density" of the pad delivers an ingenious balance that maximizes cleaning performance while bringing an unmatched shine to most floor surfaces.

In addition, KGS scientists have incorporated proprietary abrasive technology normally applied in the aerospace industry for high precision surface finishing. The result of using this KGS diamond abrasive technology is superior polishing characteristics, fast removal of soils, long lifetime and repeatable performance.

The KGS Floor team has worked endless hours with customers in every part of the world to understand the demands in today's cleaning industry. The KGS FLEXIS® system has cleaned millions of square meters of shopping malls, airports, hospitals, government buildings, schools, grocery stores and every other type of commercial space. KGS brings together the very best materials and science to provide superior results on every floor.

KGS FLEXIS® - Diamond floor pads

KGS FLEXIS® floor pads are designed, engineered and tested for the very best results. Make your cleaning & maintenance work easier. The floor pads are available in eight different grit sizes. Grit 400, 800, 1500 and 3000 are part of the standard line, a four step system for cleaning and maintenance. These pads are the ultimate solution on daily floor cleaning and polishing due to their unique technical properties.

The KGS FLEXIS® standard 4 pad system will handle the regular maintenance and cleaning of most floors. However, for special needs, there are pads available in grits, 100, 200, 350 and 8000. Grit 100, 200 and 350 are coarse pads that can be used before the four step system. Grit 8000 is ultra fine and perfect to use after the four step system for a deep polish shine.

- Thick and strong 20 mm / 0.8" pads, consistent finish in all surfaces
- Proven long lasting results
- Terrazzo, marble, concrete, ceramic tiles, vinyl, plastic, linoleum, epoxy and acrylic floor



STANDARD LINE

Step 1 - Red pad, coarse grit 400



The red pad is mainly used for heavy duty surface cleaning. It is intended for deep cleaning and as a base to establish a good starting point for the 4 step process.

- Rough or very dirty surfaces
- Process starter / Occasional use
- Mostly used for "mat finish" floors

Step 2 - Blue pad, medium grit 800



The blue pad can be used for deep cleaning and produces an economical light reflective finish, most popular in large industrial and commercial applications.

- Very high traffic floors, dusty areas
- Mostly used on "mat finish" floors
- Occasional deep cleaning / Daily for light gloss

Step 3 - Yellow pad, fine grit 1500



The yellow pad is intended for both daily polishing and cleaning, produces a clear reflective shine.

- All floors / Maintenance
- Regular finish / Daily for high gloss

Step 4 - Green pad, very fine grit 3000



The green pad, used wet or dry, will finish off the four step process leaving a high polish to the floor. Daily use will maintain and improve the polish.

- All floors / Cleaning / Buff
- Daily for cleaning / Extra high gloss

Black pad, aggressive grit 100

The most aggressive pad in the range. This pad is used specifically in conjunction with appropriate chemical solution for extreme heavy-duty cleaning of heavily soiled floors with grease and oil, mineral or rubberized deposits.



Orange pad, very coarse grit 200

This pad is also intended for heavy duty cleaning where the extent of soiling does not require the aggressive black pad. Frequently used for surface cleanup of residual grout and filler on honed travertine floors with just plain water. Use with a degreaser solution on surfaces soiled with grease and oil.



Brown pad, coarse plus grit 350

A heavy-duty cleaning pad for soiled surfaces where the red pad does not have enough cutting power. Can be used for removing very light polymer coatings, however, an appropriate stripper may be required to break down the polymer structure to facilitate total removal. The pad material may not be compatible with some chemical strippers. Always test for compatibility prior to widespread use.



Cream pad, ultra fine grit 8000

The cream 8000 pad for buffing wet or dry. Gives the surface a deep polish also called "Wet Look Shine". When used daily, in combination with or without the green pad, it will maintain and improve a high polish.



CHOOSE THE RIGHT PAD FOR YOUR FLOOR

Floor type	Cautionary notes	Grits
Blue limestone indoor	Heavy traffic wear	400 800 1500
Blue limestone indoor	Light traffic wear	800 1500
Blue limestone outdoor	All conditions	400 800
Marble honed	Medium light reflection required	800 1500
Marble polished	High light reflection required	1500 3000 8000
Granite textured and honed	Cleaning only	400 800
Granite polished	Will not restore polish to a worn floor	1500 3000 8000
Basalt	Honed surfaces	400 800 1500
Hard slate	Deep clean to honed finish	400 800 1500
Soft slate	Do not use very coarse grits on this material	1500 3000
Epoxy terrazzo	Do not use very coarse grits on this material	1500 3000 8000
Cementitious terrazzo	Do not use very coarse grits on this material	800 1500 3000 8000
Engineered stone	Do not use very coarse grits on this material	1500 3000 8000
Glazed ceramic tile	Use caution on glazed ceramic tile	3000 8000
Matt porcelain tile	Do not use on polished porcelain	800 1500
Epoxy coatings	Do not use very coarse grits on this material	1500 3000 8000
Linoleum/marmoleum	Do not use very coarse grits on this material	1500 3000 8000
Vinyl/plastic	Do not use very coarse grits on this material	1500 3000 8000
Trowelled concrete	Use caution on textured concrete	400 800 1500
Polished concrete	Do not use very coarse grits on this material	1500 3000 8000

Note: This table is the suggested pad sequence for various flooring materials. When in doubt, always start with a finer grit than suggested but if cleaning or honing progress is too slow, move progressively coarser until the desired result is achieved. A high polish is achieved with the 3000g pad. The 8000g pad is optional for a higher level of polish. Test in an inconspicuous area for suitability prior to widespread use if in doubt.

Caution: Do not use grits below 800 on polished materials as this will seriously damage the polish.

Overview KGS FLEXIS® pads

	100	200	350	400	800	1500	3000	8000
Ø6" / 152 mm	17371	17372	17373	17256	17257	17258	17259	17487
Ø7" / 178 mm	17415	40674	40684	17260	17261	17262	17263	38374
Ø8" / 203 mm	40685	40686	40687	17337	17338	17339	27494	17489
Ø9" / 229 mm	17368	40688	40689	17264	17265	17266	17267	31502
Ø10" / 254 mm	17490	17491	17492	17268	17269	17270	17271	27508
Ø11" / 279 mm	17418	40690	17420	17272	17273	17274	17275	17493
Ø12" / 305 mm	40691	40692	40693	17276	17277	17278	17279	17494
Ø13" / 330 mm	31507	31508	31509	17280	17281	17282	17283	31510
Ø14"/ 356 mm	31511	40694	40695	40696	17285	17286	17287	36086
Ø15"/ 381 mm	17357	31514	36088	17288	17289	17290	17291	17495
Ø16"/ 406 mm	17356	17374	17370	17292	17293	17294	17295	17428

10 pcs.

	100	200	350	400	800	1500	3000	8000
Ø17"/ 432 mm	17341	17340	17369	17296	17298	17300	17302	17429
Ø18"/ 457 mm	40697	40698	40699	17304	17305	17306	17307	27510
Ø19"/ 483 mm	40700	40701	40702	17353	17354	17355	17345	27502
Ø20"/ 508 mm	17343	17342	40703	17308	17309	17310	17311	17440
Ø21"/ 533 mm	31518	40704	40705	17312	17313	17314	17315	17438
Ø22"/ 559 mm	41498	40707	40708	31524	31526	31527	31528	40709
Ø23"/ 584 mm	40710	40711	40712	40713	40714	40715	40716	40717
Ø24"/ 610 mm	40718	40719	40720	17316	17317	17318	17319	31533
Ø25"/ 635 mm	40721	40722	40723	40724	40725	40726	40727	40728
Ø26"/ 660 mm	40729	40730	40731	40732	40733	40734	40735	40736
Ø27"/ 686 mm	31534	31535	31536	17320	17321	30390	17322	31537

10 pcs.





KGS FLEXIS® HD
Diamond floor pads

KGS DIAMOND has developed a completely new range of its revolutionary KGS FLEXIS® sheets with KGS diamond abrasive technology. The sheets are specifically designed for "high energy" oscillating floor machines and cleaning equipment.

This new KGS technology is based on decades of precision polishing in the most demanding industries, where KGS products are world leaders in performance.

The KGS FLEXIS® HD sheets will bring the absolute highest performance from any "high energy" oscillating floor machine. The KGS FLEXIS® HD system is easy to use, extremely versatile and will save you money. Using your rectangular floor cleaning equipment, you can clean, maintain and polish concrete, terrazzo and soft natural stone floors.

This special KGS diamond abrasive technology works wet or dry, at high or low speeds, with heavy or light equipment. There is no other technology available that matches the KGS FLEXIS® and KGS FLEXIS® HD product range!

KGS FLEXIS® HD - Diamond floor pads

Pads and sheets

KGS FLEXIS® HD pads are the ultimate solution on daily floor cleaning and polishing due to their unique technical properties. Superior performance compared to standard non woven pads on oscillating machines. Key Benefits are long life and works twice a fast as the competition. You need in general only 5 passes per grit, with these thin (10 mm) but very strong pads and their open weave pattern, manufactured in the EU. Available in circle and rectangle shape.



Key benefits

- Long life
- Works twice a fast as the competition
- Only 5 passes per grit
- 10mm thick pad
- Open weave
- EU manufactured

Working Benefits

- No need to protect large areas when working
- Easy to use reducing cleaning times
- More efficient than standard nonwoven pads
- No special skills required

Floor Types

- Terrazzo
- Marble
- Granite
- Concrete
- Ceramic tiles
- Vinyl
- Plastic
- Linoleum
- Epoxy
- Acrylic



KGS FLEXIS® HD easily maintains concrete, terrazzo and stone surfaces using only water. Exceptional productivity gains, with long life and high shine. Fewer pad changes means fewer stoppages, less downtime and long life results with less overheads. When cleaning or maintaining your floor, you become responsible for its safety and usage. You keep the risk under control while improving the general look of your floors.

Available grits

- 100 Aggressive, grit 100 (black)
- 200 Very Coarse, grit 200 (orange)
- 400 Coarse, grit 400 (red)
- 800 Medium, grit 800 (blue)
- 1500 Fine, 1500 (yellow)
- 3000 Very fine, grit 3000 (green)
- 8000 Ultra fine, grit (cream)

From rough to fine

Overview KGS FLEXIS® HD - Diamond floor pads and sheets

KGS FLEXIS® HD diamond floor pads

	100	200	350	400	800	1500	3000	8000
Ø 3″ 75 mm	40863	40864	40865	40866	40867	40868	40869	40870
Ø 4″ 100 mm	17397	40738	40739	17399	17400	17401	17402	40740
Ø 4,5″ 115 mm	40871	40872	40873	40874	40875	40876	40877	40878
Ø 5″ 127 mm	17403	17404	40741	17405	17406	17407	17408	17461
Ø 6″ 152 mm	33014	33015	40742	27499	27500	17409	27501	29619
Ø 7″ 178 mm	40879	40880	40881	40882	40883	40884	40885	40886
Ø 8″ 203 mm	40887	40888	40889	40890	40891	40892	40893	40894
Ø 17″ 432 mm	36206	34947	36207	28061	28062	28063	28064	34972

Shape: circle ◯

* 3″ until 8″ per 5 pcs. 17″ per 1 pcs.

KGS FLEXIS® HD diamond floor sheets

	100	200	400	800	1500	3000	8000
210x115 mm 8″x4^{5}″	40743	40744	40746	40747	40748	40749	40750
250x125 mm 9^{8}″x5″	36230	36231	17548	17549	17550	17551	36232
270x135 mm 10″x 5^{25}″	40752	40753	27546	27547	27548	27549	30478
400x200 mm 16″x 8″	40755	40756	17432	17433	17434	17435	17573
460x305mm 18″x 12″	40758	40759	40761	40762	40763	40764	40765
510x360 mm 20″x 14″	17375	17376	17377	17378	17379	17380	17436
610x360 mm 24″x 14″	17381	17382	17383	17384	17385	17386	40768
710x360 mm 28″x 14″	17387	17388	17389	17390	17391	17392	40770
810x360 mm 32″x 14″	27514	40771	17505	17506	17507	17508	40773

Shape: rectangle 

Chemicals



KGS offer different chemicals for daily cleaning and periodic deep cleaning with either alkaline, acidic, or neutral based cleaners

- Alkaline to remove organic residues (concentrated, can be diluted)
- Acids to remove inorganic residues (concentrated, can be diluted). WARNING Not to be used on acid sensitive stone. Always test in inconspicuous area for suitability.
- PH neutral for daily cleaning

Chemicals for concrete

For concrete floors, KGS has three products specifically formulated to facilitate the polishing through densification, provide stain protection through impregnation and polish protection and enhancement through a topical guard coating.

KGS Densifier

KGS Densifier is used in the early stages of concrete grinding (around 100g or 200g cut) to decrease the surface porosity which effectively makes the surface more dense and consequently harder. This is a very necessary process for soft concrete to improve the polish ability of the concrete and extend tool life. The densifier is a highly reactive blend of potassium and lithium silicates which penetrate below the concrete surface to react with the free lime in the form of calcium hydroxide to convert it to calcium silicate hydrate (CSH).

The silicate blend improves the density and hardness of concrete and reduces the penetration of aqueous liquids, grease, oils and other dirt. The water absorption is strongly reduced, while the water vapor permeability is only marginally affected. The active ingredients are UV-resistant and non-yellowing.

Suitable for use on cement-based floors including concrete, terrazzo, screeds and overlays. Note that on polymer modified concrete the results may be limited. Refer to manufacturers instructions to determine suitability



Product specifications

Content	Art. no.
20 liter	27250

Application & processing

The surface to be treated must be dry and free from topical coatings. To calculate the amount of densifier required, make a test application in an inconspicuous area to determine the rate of absorption. Apply the densifier with an airless sprayer ensuring an even application and avoid pooling. A nozzle 0.2-0.3 is recommended. Application is a two-person operation. One person applies the densifier while the other spreads it evenly over the floor using either a short hair roller (synthetic polyamide recommended) or a microfiber mop.

The absorption rate will differ across the floor. Some areas will dry quickly and others will remain wet longer. After 20 minutes, all remaining densifier on the surface should be removed with a scrubber dryer. Allow 1 – 2 hours drying time before walking on the treated floor. Drying time can vary depending upon ambient temperature and humidity.

Protect moisture sensitive areas from overspray and splashes. Clean equipment with plain water immediately after use.

Storage

Protect from freezing. A sealed container has a 12-month shelf-life when stored in a cool, dry location. Opened containers should be used as soon as possible.

Application temperature

Try to avoid direct full sun when applying. The surface temperature of the floor should be between 5C and 35C (40-100F). Underfloor heating should be turned off and avoid wetting until the application is completely dry. Wait between 24 hours before applying KGS GUARD or KGS SEALER

Coverage rate

Densifier consumption depends upon the porosity of the floor and the number of applications required. It is possible on a very soft floor that multiple applications may be necessary. When applied in the early stages of grinding, approx. 7 – 15 m2 / liter can be expected. On a troweled surface approx. 10-20 m2 / liter can be expected.



KGS Guard

KGS GUARD is a highly reactive hybrid lithium silicate product which provides basic protection against stains and also protects the surface from abrasion and polish deterioration. It is suitable for use on all cementitious floors including concrete, poured terrazzo, terrazzo tile and can be used for both indoor and outdoor installations.

KGS GUARD works both below and on the surface of the floor to create a surface layer that is abrasion resistant and less permeable making it free from dusting and more stain resistant. The surface is also easier to keep clean. The polymer in KGS GUARD will also increase the gloss of the floor which is enhanced by periodic reapplication and buffing or burnishing. Color enhancement will vary from none to a very slight darker tone.



Product specifications

Content	Art. no.
20 liter	27249



Application & processing

The surface to be treated must be dry. It is highly recommended allowing overnight drying if the concrete has been wet ground. For optimum results, burnish the floor with a 3000g Flexis pad and vacuum the floor to remove any dust prior to the Guard application. Apply the Guard with an airless sprayer ensuring an even application and avoiding pooling. A nozzle 0.2 – 0.3 is recommended. Application is a two person operation. One person applies the Guard while the other spreads it evenly over the floor using either a short hair roller (synthetic polyamide) or a microfiber flat mop.

The consumption rate will differ across the floor. Some areas will dry quickly and others will remain wet longer due to the varying density across the floor. Work the areas that remain wet longer with the mop to ensure an even coat and uniform drying. After the application is dry, buff or burnish the floor with a 3000g Flexis pad to cure the Guard and develop a high shine. This process can be repeated to obtain a higher level of shine or if the initial application was slightly uneven.

Protect moisture sensitive areas from overspray and splashes. Clean all equipment and mops with clean water soon after use.

Application temperature

Avoid direct solar radiation during processing. The surface temperature should be between 5°C and 35°C (40 -100 °F). Floor heating may be turned off. Avoid direct moisture until the treatment is totally dry.

Coverage rate

Depending on the absorption following values are to be assumed.Reference value: grinded/polished surface: approx. 15-25 m^2/ liter. Trowelled surfaces: approx. 10-20 m^2/ liter.

Storage

Storage protect from freezing Shelf-life in cool, dry and closed container is about 12 months. Opened cans should be worked up as soon as possible.

KGS Sealer

KGS SEALER is suitable for cementitious surfaces and natural stone. It is a solvent based silane blend impregnator which provides excellent water and oil stain resistance. Moderate to strong color enhancement can be expected so always test in an inconspicuous area for suitability prior to use. The degree of color enhancement depends upon the degree of porosity of the material being treated. Highly porous material will darken more and may require more than one application to develop an acceptable level of stain resistance.

The product reduces the penetration of liquids, grease, oil and other dirt. The effectiveness depends on the material and the absorption of this. Depending on the type of material, the results vary regarding the stain protection and the colour enhancing effect.

The surface can be strongly darken in the case of an exceeding colour saturation. The water absorption is strongly reduced while the water vapor permeability is only marginal affected. KGS Sealer is UV stabil.



Product specifications

Content	Art. no.
10 liter	29028



Application & processing

KGS Sealer can be applied on polished or honed concrete, Terrazzo, granite, marble and other natural stone floors. To use on Industrial floors, super-markets or private home floors. You can also apply the impregnation on kitchentops, window sills and natural stone on walls or floor. Can be used inside and outside. The acid sensitivity of the material still remains, but is reduced. Test the impregnation upfront at an inconspicuous place.

The treatable surface must be dry (under 4%) and free from impurities. Apply KGS Sealer with a sprayer and spread it with a microfiber mop. On highly absorbing surfaces a repeated application is recommended. The surface must be saturated with KGS Sealer. Polish the excess impregantion after 2 -10 minutes into the floor. Use a single disc machine or a high speed burnisher with a soft polishing pad. Do not allow overdose material to dry on the surface. Protect adjacent, solvent sensitive materials against splashes. Clean used tools with KGS Cleaner LF.

Processing temperature

Avoid direct sun radiation during the process. The surface temperature should be between 10° and 30°C. Turn off floor heating. Protect the treated surface during the next 24 hours against moisture, sun, rain and dirt.

Drying time

The water and oil repellent occur after 2-3 hours. The impregnation is completely dry after 24-48 hours. KGS Sealer is walkable carefully after roughly 10 hours.

Productiveness

Depending on the absorption of the surface: Polished surfaces - 20 - 50 m^2/liter. Rough surfaces - 10 -20 m^2/liter.

Storage

Store KGS Sealer in a cool and dry container. Under these conditions the shelf life time is 12 months. Open canisters should be worked up as soon as possible.

Caution not: Always ensure good ventilation and use the ppropriate PPE when applying this product.

Chemicals for natural stone

KGS DIAMOND offers further a system proven range of chemicals to protect your natural stone floor after the polishing process. You can choose between solvent based impregnations which leave a natural outlook and which create a Colour enhanced appearance.

KGS K20 zip & shine

Solvent based protective surface colour enhancer for polished & honed stone, which completely eliminates the micro hairline cracks, shadow-blemishes found in granite and natural stone slabs.

Content	Art. no.
1 liter	24265
5 liter	24267



KGS K21 platinum solvent

K21 anti stain humidity solvent based treatment, suitable for all honed, polished granite, marble, natural and artificial engineered stones, terra cotta, porcelain, quarry, cement pavers.

Content	Art. no.
5 liter	24273



KGS K14 deep cleaning

Concentrated alkaline cleaner and degreaser. Effective removal of stubborn ingrained dirt, organic oil and grout surface residues.

Content	Art. no.
1 liter	24260



KGS K19 cement film remover

Special acid based detergent formulated with a combination of different acids ideal for cleaning grout, cement and adhesive residue, lime deposit, mortar, efflorescence salts.

Content	Art. no.
1 liter	24272



KGS K31 floorclean

PH neutral cleaner for daily use. Removes normal dirt and grease and leaves a nice shine on the surface. Can be used on all kind of water resistant floors like natural stone, concrete, ceramic or linoleum. concentrate. Must be diluted.

Content	Art. no.
1 liter	28327



Safety

Always read the safety instructions

Abrasive products improperly used can be very dangerous.

- Always follow the instructions provided on the product and by the machine supplier.
- Ensure that the abrasive product is suitable for its intended use. Always examine all products for damage when re-using or defects upon first use.
- Follow the correct procedures for handling and storage of the products.

Be aware of the hazards likely during the use of abrasive products and observe the recommended precautions to be taken

- Bodily contact with the abrasive product at operating speed
- Injury resulting from product breakage during use
- Grinding debris, sparks, fumes and dust generated by the grinding process
- Noise / vibration

Please refer to the relevant EN standard for detailled information.

- EN12413 for Bonded Abrasives.
- EN13236 for Superabrasives.
- EN13743 for Specific Coated Abrasives

Never use a machine that is not in good working condition or one with defective parts. Employers should carry out a risk assessment on all individual abrasive processes to determine the necessary protective measures. They should ensure that their employees are suitably trained to carry out their duties.

Work safe!

- Wear eye protection (ISO 7010)
- Wear a mask (ISO 7010)
- Wear hearing protection (ISO 7010)
- Wear gloves and necessary protective clothing.
- Always take into consideration the correct provided working indications as wet, dry or hybrid tools.



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