KGS
Swiss Diamond Technology®

DIAMOND TOOLS

CERAMIC INDUSTRY



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.

Content guide

Find the right product for your application

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KGS RED™ K835 - p. 17
Dry cutting disc, used in the "(kitchen) counter top" industry on ceramic materials. Officially endorsed by Dekton®.





KGS CNC Tools - p. 20
KGS Diamond has a number of special milling tools in its range for making integration holes in ceramics.
These diamond milling tools have a small radius and special bond, which makes the tools especially suitable for the job.

KGS RED™ K855 - p. 28
Powerful vacuum brazed drills, perfect for ceramic. The drills are provided with a wax inside to guarantee smooth drilling.





KGS PU Glue Cartridge- p. 52
Excellent for bonding reinforcing profiles to many types of materials. This KGS PU series of adhesives is known for high strength and durability.





Dear customer, partner

KGS DIAMOND offers a complete range of products for processing natural stone, engineered stone and other industrial building materials. These products can be found in our main catalog. This catalog is specifically focused on the KGS tooling program for processing ceramic materials such as Dekton®, Neolith® and other well known brands.

The ceramic materials industry is constantly changing and we will continuously update our tooling program and this catalog to make sure our partners have the most current technology to grind, cut or polish with the highest efficiency possible.

The KGS DIAMOND range of tools for ceramic materials has been developed and proven working with our partners that are processing ceramics every day. You can be confident that these tools meet the most demanding requirements.

KGS DIAMOND has considered all variables to create the best possible solution for our partners. We consider the type of ceramic material, the type of machine doing the work, and the working method to make sure you get the best results.

If you need any assistance, please do not hesitate to contact one of our technical specialists or our customer service. We are there to serve you.

Thank you for choosing KGS DIAMOND,

With kind regards,

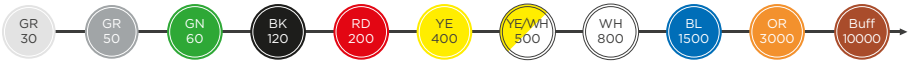
KGS DIAMOND team

Grits

Diamond consists of pure carbon in a crystalline structure. For grinding tools, the diamonds used are generally synthetic, produced at very high temperatures under high pressure. The grit size data for diamond is based upon the average grit diameter in microns. A coarse grit size increases stock removal and surface roughness of the workpiece. Choosing the right grit size depends of several factors including the material, the machines, if the work is to be done "wet" or "dry" and the actual working method.

All grits are colour coded

From very coarse to very fine



Grits and appearances of surfaces

Grit	Description	Application	Surface appearance
30	Extreme coarse grit	Extreme heavy grinding and calibration	Stone colour and texture not recognizable
50	Coarse grit	Heavy grinding	Distinct grinding and sawing streaks, stone colour and texture almost unrecognizable
60	Coarse grit	Grinding	Significant abrasive streaks, colour and texture barely recognizable
120	Medium grit	Smoothing	Visible abrasive streaks, pale colours, texture recognizable, abrasive traces visible in streaks
200	Fine grit	Smoothing	Colours and textures recognizable, abrasive streaks can be visible
400	Polishing grit	Semi-polish	Semi-gloss, colour very recognizable, abrasive streaks may still be visible
500	Polishing grit	Dependent on material	Semi-gloss, recognizable polish, abrasive streaks barely visible
800	Polishing grit	Dependent on material	Recognizable polish, abrasive streaks barely visible
1500	Polishing grit	Dependent on material	Polish, no abrasive streaks, less glossy than the 3000 grit
3000	Polishing grit	Dependent on material	Polish, less glossy than the 10,000 grit
10000	Polishing grit	Dependent on material	Polish with deep luster



Pictogram legend

Technical specifications (all sizes in mm)

Machine type	Diameter	Dimension	Bore	Adapter
# Segments	Segment height	Segment width	Thickness	Speed
Useful length	Packing unit	Use dry	Use wet	

Suitable materials

CER
Ceramic

Note: All tools in this catalog are suitable for **ceramics**. Some tools are also suitable for other materials. For each product you will find the suitable materials, illustrated with the symbols below.

G	T	E	C	M
Granite	Terrazzo	Engineered stone / Composite	Concrete	Marble / Blue stone

THE WORLD OF CERAMICS & SIMILAR PRODUCTS

Ceramics and similar materials come in many shapes and sizes, for example the well-known brands Neolith®, Lapitec® and Dekton®, but also less well-known brands such as Inalco®.

Ceramic materials are available in different thicknesses and sizes. Thinner materials, such as 6 mm thick, are often strengthened by using reinforcing profiles underneath. Thicker materials are stronger and more expensive. KGS DIAMOND has the products to help you if the material is thick or thin!

The ceramic materials can be made today so that they are visually indistinguishable from the natural materials. Processing this material, such as making chamfers or facets, requires the right tools. Today, the 12 mm thick sheets are most commonly used, and these facets and processing can be done with KGS DIAMOND tools and Integra glue.

Ceramic materials are, in general, more difficult to process. The material, the machine, the operator and the working method and the tools have important influence on the process. The ceramic material itself is less sensitive to stains or scratches than natural stone materials. Some defects can even be repaired. KGS offers Stonelux products for this process which can be found in our catalog "Tools and accessories for the Stone Industry".

Besides large slabs of ceramics for industrial use, there are also tiles made of Dekton® and porcelain for installation in kitchens, sanitary areas or other locations. The KGS RED™ K309, KGS RED™ K840, KGS diamond handpad and the KGS Hybrid® Flap disc are very suitable for processing ceramics on location. Several of our products are certified for use on Dekton®. In addition, the KGS RED™ K840 diamond saw blade was developed with German tile professionals to give the highest quality results. Also our industrial products for CNC machines, such as routers, CNC drills and the KGS Flushfit are completely adapted to today's market. The range has been assembled, tested and developed with the cooperation of our most loyal customers.

If you are considering to work with ceramic materials and have any questions, please contact KGS. We have our product program presented in this catalog and we have the capability to make special tools for you as needed.

We will be happy to help you make the right choice and help you with the purchase of KGS DIAMOND tools!



The printing on the ceramic slabs sometimes does not cover the entire slab. There may be unprinted areas on the edges so that a saw blade may cut the plate to reduce stress in the slab.







The primary ceramic slab thicknesses and sizes used today are: 3, 6, 12 and 20 mm. Common sizes: 3200 x 1600, 2600 x 1200 and 3600 x 1200 mm.







Saw blades



Ceramics can be cut to size with a diamond saw in addition to the use of a water jet. We offer various diamond saws for ceramics. Where composite and granite are easy to process, it is important for ceramics that all parameters are set correctly during the sawing process, such as the saw table, the sawing machine, speed, feed rate and water supply. To achieve the best results it is important that the saw blade is sharpened regularly.

In addition to our range of professional bridge saws for industrial companies, we also offer a range of diamond saws for small on-site machines for professional tilers and builders. For example, our KGS RED™ K309 series is ideal for small table saws used on construction sites.

KGS DIAMOND SAW FOR BRIDGE SAW MACHINES

Specially developed saw blade for all kinds of ceramics, like Lapitec®, Neolith® and Dekton®. Suitable for sawing different thicknesses. Before sawing, all parameters must be correctly adjusted to the type and thickness of the ceramic sheet. Make sure that your machine performs optimally and that your table is straight. If the saw blade initially runs into the material, reduce the feed to 50% of the specified feed (mm/min) and build up slowly to get the right result.

Benefits

- Special bond for ceramics, like Lapitec® and Neolith® or Dekton®
- Clean cut
- Good cutting speed
- Long cutting life



Product specifications

Art. no.
39787

Bridge saw Use wet ∅ 400 ⌀ 60
Segment: 28x40x3,4x10 1800-2400 rpm, feed 120-220 mm/min 1 pcs.

CER

Sawing, grinding, drilling, processing ceramic materials requires a lot of diamond tools. The tools often become dull due to frequent use on ceramics. We recommend regularly sharpening the tools with a sharpening block or sharpening the material with granite or another type of stone to make it sharp again.

KGS Sharpening stone

Sharpening stone suitable for sharpening saws, drills, chisels or other diamond tools. The sharpening stone is widely used for sharpening saws used for Dekton® or ceramics.



Product specifications

Grit	Art.no.
46	29413

300 x 290 x 40 1 pcs.

KGS RED™ K309

Turbo Rim - Clean cut.
Best for: ceramic and porcelain.

Benefits

- Suitable for most types of tile sawing machines
- Excellent lifetime
- Extra cooling holes
- Thin and precise cut



Product specifications

25.4 mm bore

∅	Max.	THK		Art. no.
180	8500 rpm	1.4	7	34429
200	7600 rpm	1.6	7	34430
230	6600 rpm	1.6	7	34431
250	6100 rpm	1.6	7	39832
300	6400 rpm	2.2	7	39833
350	5400 rpm	2.2	7	39835

Tile saw Use wet

CER G T E M

KGS Bore Bushings

KGS Bore Bushings can be used to reduce the shaft hole of a saw blade depending on the size required for the machine.

∅	22 / 20	25.4 / 15.87	25.4 / 20	25.4 / 22.2	30 / 22.2	60 / 25.4	60 / 30	60 / 50	60 / 50
Art. no.	21572	32901	21194	33298	33299	21381	24957	18713	26323





Cutting discs



Creating a nice sharp edgewith as little chipping as possible is extremely important when curring ceramic materials. Also a fine finish means less polishing and finishing work.

KGS DIAMOND has developed the KGS RED™ K835 and KGS RED™ K840 diamond saws especially for ceramics for optimal results on ceramics with a thickness of 6, 12 and 20 mm. The KGS RED™ K835 saw is certified to work on Dekton® and the KGS RED™ K840 saw was developed together with professional tilers from Germany.

KGS RED™ K835 Diamond Cutting Disc

Diamond cutting disc for dry cutting of hard stone, soft stone, ceramic, and engineered stone. Used in the "(kitchen) counter top" industry on ceramic materials.

The KGS RED™ K835 is also available with M14 flange for disc stability and quick change. Reinforced flange permits quiet, low-vibration and excellent cutting results.

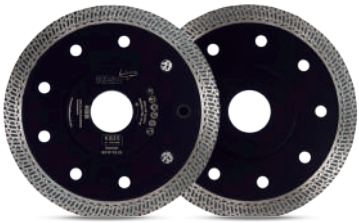
Benefits

- Powerful and clean cut
- Continuous rim for a thin, precise and accurate cut
- 10 mm height, very long service life
- Used on ceramic materials

Product specifications

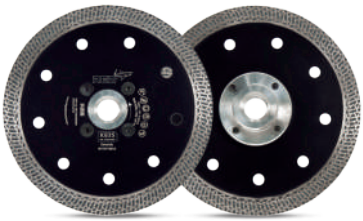
⌀ 22.23

⌀	Max.	THK		Art. no.
115	13300 rpm	1.4	10	19406
125	12200 rpm	1.4	10	19407
230	6600 rpm	1.8	10	34428



M14

⌀	Max.	THK		Art. no.
115	13300 rpm	1.4	10	19428



Angle grinder Use dry 1 pcs.

CERGEM DEKTON

*KGS RED™ K835 is officially accredited to cut Dekton®

KGS RED™ K840

Diamond cutting disc, continuous rim with very narrow space between the segments. Ultra-thin 1.1 mm cut and no breakage of material. Best for: ceramic tiles and for use on other ceramic materials like Lapitec®, Neolith® or Dekton®.

Benefits

- Ultra-thin 1.1 mm cut
- Fast cutting and no breakage of material
- Extra cooling holes
- Excellent on ceramic materials

Product specifications

⌀ 22.23 mm bore

⌀	Max.	THK		Art. no.
125	12200 rpm	1.1	10	29574

Angle grinder | Use dry | 1 pcs.

CER





KGS RED™ K828

Continuous rim - Clean cut
Excellent for porcelain.

Benefits

- Thin and precise cut
- Excellent lifetime
- Very common for tiles

Product specifications

⌀ 22.23 mm bore

∅	Max.	THK		Art. no.
115	13300 rpm	1.5	7.5	19430
125	12200 rpm	1.5	7.5	19431

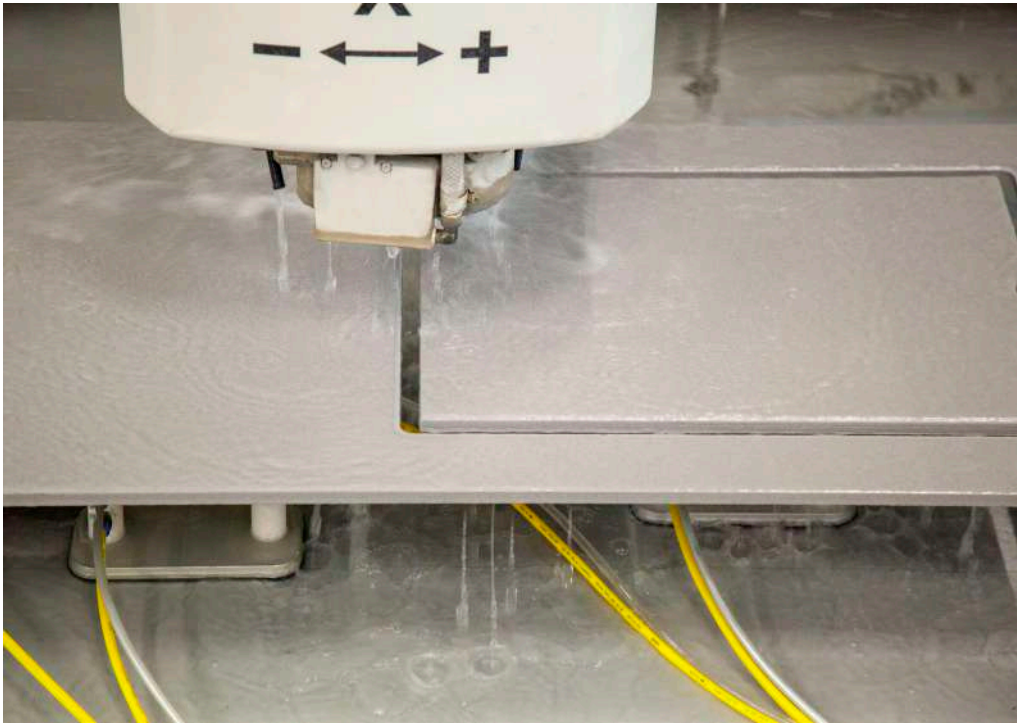
■ Angle grinder Use dry 1 pcs.

CER





CNC tools



KGS DIAMOND has a number of special milling cutters in its range for creating integration holes in ceramics. These diamond cutters have a small radius and special bond, which makes the cutters ideal for making integration holes in ceramics.

Compared to the milling process of granite and composite, there is more tension in the material when milling ceramics, which increases the risk of breakage. In order to prevent the material from breaking as much as possible, it is important that all parameters are correctly adjusted, such as power supply, speed, table and vacuum. In addition, it is important that there is little or no tension in the ceramic slab.

KGS Flush fit

The "flush fit" tools are specifically developed for making an integration edge in a ceramic sheet for a sink, cooktop or other flush mount accessory.

Benefits

- Special diamond bonding
- Minimal chipping
- Special reinforced body



Product specifications

∅	Art. no.
8x10	38882
10x10	38884

CNC machine Use wet ½"R

7000 rpm, feed 200 mm/min 1 pcs.

CER

KGS Router

Specially developed router for processing all kinds of ceramics, like Lapitec® and Neolith® or for processing Dekton®. The bond has been specially developed to keep chipping to a minimum.

Benefits

- Special body
- Special segment developed for ceramic materials
- Special reinforced body



Product specifications

Art. no.
39575

CNC machine Use wet ∅ 18x30 ½"R

6500-8300, feed 300 mm/min 1 pcs.

CER

KGS Flush fit

This diamond crown is specifically developed for milling ceramics, like Lapitec® and Neolith® and also excellent for milling Dekton®. Can be used for milling a "cut out" in ceramics or making an integration edge. The special bond ensures a good finish and the body provides maximum stability.

Benefits

- Clean cut
- Special stabile body
- Special diamond bonding



Product specifications

Art. no.
40451

CNC machine | Use wet | ∅ 15x16 | ½"R
7000-8000 RPM, feed 500 mm/min | 1 pcs.



KGS CNC Drill

CNC drill with a wall thickness of 1 mm, allowing you to drill through the material at high speed. The drills are suitable for use on CNC machines, tripod drill machines, or in combination with the M14 adapter on an angle grinder. Ideal when a tap hole still needs to be drilled on site.

Benefits

- Strong quality
- Thin wall 1 mm construction
- Sharp edges
- Suitable for fast drilling





Product specifications

∅	Art. no.
8	19620
10	19760
12	19761
15	19623
16	19624
18	19626
20	19763
22	19627
25	19765
27	19669
30	19766

∅	Art. no.
32	19767
35	19768
40	19769
45	19632
50	19770
60	19633
70	19771
80	19637
100	19772
105	19773

■ CNC machine / with adapter on an angle grinder Use wet ½"R

See speed conversion table page 63 1 pcs.

CER G E M

KGS M14 adapter for CNC Drills

With this adapter you can also use the drill on a wet angle grinder with M14 connection.



Adapter M14 int. ½"R int.
Art. no. 21368

Marmoelettromeccanica galvanic milling drill

Special milling cutter that guarantees even better end results in combination with your profiling sets. Good results in combination with Marmoelettromeccanica line 20 CNC profiling tools. For advice you can contact our technical specialist or account managers.

Benefits

- Perfect first step for profiling sets
- Special bond
- Even finish



Product specifications

Type	Art. no.
Milling drill	40409

CNC machine | Use wet | ∅ 16x55 | ½"R | 1 pcs.

CER GEM



Marmoelettromeccanica line 20 CNC profiling

Marmoelettromeccanica line 20, the ideal solution for finishing ceramics after milling or water jetting. A good addition to the KGS diamond milling tools, with the Marmo Elletromeccanica you get the best results with a semi-circular finish on a CNC machine. In combination with the 'Long Life technology' you will achieve a perfect shine. There are special water holes in the tools for extra cooling.

Benefits

- Long life technology
- Perfect in combination with Marmoelettromeccanica galvanic milling drill (art. no. 40409)
- High gloss on all material



Marmoelettromeccanica Z40 line 20

Type		Art. no.
Milling cutter	Pos.1 SC21035	19989
Milling cutter	Pos.2 SC22035	19996
Milling cutter	Pos.3 SC23035	20004
Polishing wheel	Pos.4 SC24035	20035
Polishing wheel	Pos.5 SC25035	20045
Polishing wheel	Pos.6 SC26035	20055

CNC machine | Use wet | ∅ 20 | ½"R Radius = 10 mm | 40 | 1 pcs.

CER GEM

Marmoelettromeccanica Z50 line 20



Type		Art. no.
Milling cutter	Pos.1 SC21036	19990
Milling cutter	Pos.2 SC22036	19997
Milling cutter	Pos.3 SC23036	20005
Polishing wheel	Pos.4 SC24036	20036
Polishing wheel	Pos.5 SC25036	20046
Polishing wheel	Pos.6 SC26036	20056

CNC machine | Use wet | ∅ 20 | ½"R Radius = 10 mm | 50 | 1 pcs.

CER GEM

Drills



KGS DIAMOND has developed a line of diamond drills that make it easier to drill ceramic materials such as Dekton®, Lapitec® and Neolith®.

In contrast to natural stone, ceramics are much harder and have a different structure, which requires different tool properties. KGS diamond drill bits for ceramics are perfect for drilling holes in ceramics.

For a constant optimal result, we recommend regularly sharpening the drills with other materials such as granite or with our KGS DIAMOND grinding block.

KGS RED™ K856

Powerful vacuum brazed drills, perfect for ceramic. The drills are provided with a wax inside to guarantee smooth drilling and cooling. The drills have a hexagonal connection for use on a (battery) drilling machine.

Benefits

- For dry use
- Quick drilling
- Long lifetime



Product specifications

∅	↕	Art. no.
6 x 10	35	30677
8 x 10	40	30685
10 x 10	40	31130
12 x 10	40	31132

Hand drills | Use dry | Hexagonal | 2000-3000 RPM | 1 pcs.

CER G E

Set of four KGS RED™ K856 drills Ø6, 8, 10 & 12 mm

Art. no. 31355 | 4 pcs.



KGS RED™ K855

Powerful vacuum brazed drills, perfect for ceramic. The drills are provided with a wax inside to guarantee smooth drilling. They are available in Ø6, 8, 10 and 12 mm, the other larger sizes are provided with cooling holes. The drills have a M14 connection for use on an angle grinder.

Benefits

- For dry use
- Quick drilling
- Long lifetime





Product specifications

Ø	↕	Art. no	Ø	↕	Art. no
6 x 10	35	30686	43 x 10	40	34528
8 x 10	35	30687	45 x 10	40	34700
10 x 10	35	30688	50 x 10	40	34529
12 x 10	35	31134	55 x 10	40	31139
20 x 10	40	30689	65 x 10	40	40405
27 x 10	40	31138	68 x 10	40	30691
35 x 10	40	30690	72 x 10	45	30692
38 x 10	40	34527	100 x 10	45	30693
40 x 10	40	34699	105 x 10	45	30694

Angle grinders · Use dry · M14 · 11000 · 1 pcs.

CER G E

Sets KGS RED™ K855 diamond drills



KGS RED™ K855
4-piece set of diamond drills

Ø6, 8, 10 & 12 mm

Art. no. 31354 4 pcs.



KGS RED™ K855
6-piece set of diamond drills

Ø20, 35, 38, 43, 50 & 68 mm

Art. no. 33921 6 pcs.



KGS RED™ K855
8-piece set of diamond drills

- KGS RED™ K855 Ø6, 8, 10, 12, 20, 27 & 35 mm
- KGS tile drill guide 5-12 mm

Art. no. 40632 8 pcs.

Angle grinders Use dry M14 11000 rpm

CER G E



KGS RED™ K857

KGS RED™ K857 diamond drills are suitable for occasional wet drilling in ceramics. The attractive price/quality ratio makes the drills very suitable for every DIYer. The drills are equipped with a 6 mm shaft connection, suitable for use on any (battery) drill.

Benefits

- Easy drilling thanks to the thin wall of the drills
- Good cooling of the drills, ensures a long service life
- Minimal pressure and outbreaks due to water supply

Product specifications

∅	Art. no.	∅	Art. no.
6	34396	22	34402
8	34397	25	34403
10	34398	32	34404
12	34399	35	34405
18	34400		



Hand drills | Use wet | 6 mm shaft | 2000-3000 RPM

1 pcs.

Accessories KGS RED™ ceramic drills

	Art. no.
Tile drill guide 5-12 mm	34412
Tile drill guide 6-80 mm	34413







Calibration discs



KGS DIAMOND offers various diamond discs for the calibration of ceramics. The KGS Hybrid® flap discs are perfect for making facets on ceramics. The KGS Hybrid® flap discs leave a much finer finish than for example sintered diamond discs. For calibration we recommend using the KGS Hybrid® flap discs with M14 coupling, so that you can work flat on the surface of the ceramic material.

The KGS Hybrid® flap disc is also very popular among tilers and people who often work with ceramic materials in factories where kitchen worktops are made from Dekton®, Lapitec®. Even Silestone has decided to certify the KGS Hybrid® flap disc grain 50 for their Dekton® materials. Be surprised by the very fine finishes and flexibility of this great all-round disc.

KGS Speedline® MP+ Diamond Polishing Disc

The Speedline® MP+ has been specially developed for grinding and polishing bevels and straight edges. The discs are equipped with a snail fit (SF) adapter. This adapter ensures stability and comfortable use.

The MP is very suitable for making facets on Dekton®, the Size or Lapitec® and is much more stable in use than, for example, a sanding stone. We recommend the flap disc for the Dekton® X-Gloss materials.

Benefits

- Excellent quality
- Long service life
- Cost effective
- Comfortable use



Product specifications

60	120	200	400
18121	18122	18123	18131

Hand-held machine | Use wet | ∅ 100 | ⌀ 25 | SF (snail fit)

3500 to 6500 rpm | 1 pcs.

CER G T E C M



KGS Hybrid® Diamond Flap Disc

KGS Hybrid® diamond flap discs are made of a plastic body with metal bonded diamond flaps. This makes the discs very aggressive. Material removal and speed of the KGS Hybrid® diamond flap disc is equal to that of cup wheels, however, the vibrations of the machine during use are much less. The flap discs are very suitable for material removal and deburring, from coarse to fine grinding. KGS Hybrid® flap discs can also be used edge grinding, chamfering and surface grinding.

Benefits

- Aggressive and very quick material removal
- Comfortable and smooth grinding, reduced hand and arm vibrations compared to cup wheels
- Very long service life
- Firm body and solid flaps give precise control
- Clean finish with accurate chamfering and edging
- Easy to use due to constant grinding pressure







Product specifications

⌀ 22.23



50	60	120	200
27430	18911	18912	18913

M14



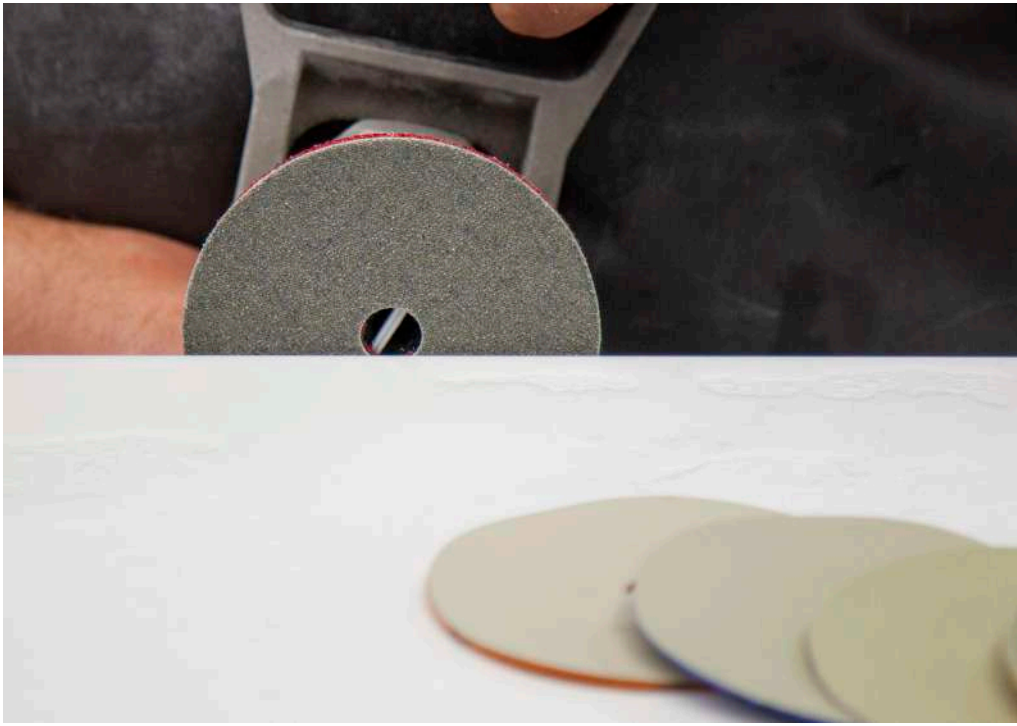
50	60	120	200
18941	18931	18932	18933

The KGS Hybrid® flap disc grit 50 is officially accredited for working on Dekton® and other ceramic materials.

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

CER GTECM DEKTON

Polishing discs



KGS DIAMOND offers different diamond discs for polishing ceramics. Our KGS Swiflex® CX discs aren't only a very good alternative to sandpaper but are also excellent for polishing ceramics. Due to the smooth diamond structure, the KGS Swiflex® CX discs leave a very fine finish that allows you to achieve maximum results. Both dark and light ceramics are easy to process. We recommend using these discs, as well as our other polishing discs, only for the sides and facets.

New in our range of polishing discs is the KGS Hybrid® ST set. Quickly achieve the desired result in just 3 steps! The KGS Hybrid® ST polishing discs are specially designed for sanding and polishing of ceramic products such as Neoltih®, Dekton® and Lapitec®. If you wish more help or advice, please consult one of our technical specialists.

KGS Swiflex® CX Diamond Polishing Disc

KGS Swiflex® CX are a new generation of flexible diamond polishing discs. The discs are resin bonded, they can be used on natural stone, engineered stone, concrete and deliver also a very good performance on ceramics.

KGS Swiflex® CX are a replacement for conventional silicon carbide sandpaper. Very well suited for chamfering and edge grinding; also good for surface grinding.



Benefits

- Long service life compared to silicon carbide sandpaper
- Fast grinding and polishing
- Delivers a fast high-gloss finish
- The finishes will not have the "orange peel" effect
- Even after polishing, the natural stone colour stays the same
- More efficient grinding process compared to conventional silicon carbide sandpaper

Product specifications

60	120	200	400	800	1500	3000
18840	18841	18842	18843	18844	18845	18846

Hand-held machine | Use dry | ∅ 100 | ⌀ 15 | Velcro® | 5 pcs.

GTECM

Set: 1 pack includes 7 grits (60, 120, 200, 400, 800, 1500, 3000)
Art. no. 18839

KGS Hybrid® SR Diamond Polishing Disc

The KGS Hybrid® SR disc are well suited for edge and surface grinding and polishing. The discs are ideal for working on site where small polishing jobs must be carried out quickly. KGS Hybrid® SR discs can be used for natural stone, ceramic, engineered stone, concrete, marble and blue stone.

Great polishing results in just 3 steps. Step 0 can be used before the 3 step system. Perfect for very rough surfaces to calibrate or shape the material.

Benefits

- Fast grinding and polishing
- Long service life
- Great polish attainable in 3 quick steps

Product specifications

Step	Art. no.
0: calibration	23532
1: grinding	23533
2: fine grinding	23534
3: polishing	23535



Hand-held machine | Use wet or dry | ∅ 100 | ⌀ 15 | Velcro® | 1 pcs.

CER G T E C M



KGS Speedline® ST Diamond Polishing Disc

The KGS Speedline® ST set consists of only three steps, allowing you to quickly achieve the desired result. The KGS Speedline® ST polishing discs are specially designed for sanding and polishing ceramic products such as Neoltih®, Dekton® and Lapitec®. The specially designed resin bond ensures that the cooling water is used efficiently during the polishing process resulting in optimum polishing performance. In addition to ceramics, the discs can also be used for other materials such as composite, granite, marble and bluestone. In addition to the 3-step system, there is also step 0. Step 0 can be used for the 3-step system. Perfect for very rough surfaces to calibrate or shape the material.

Benefits

- Only 3 steps needed
- Leaves no residue
- Special type of resin for extra cooling

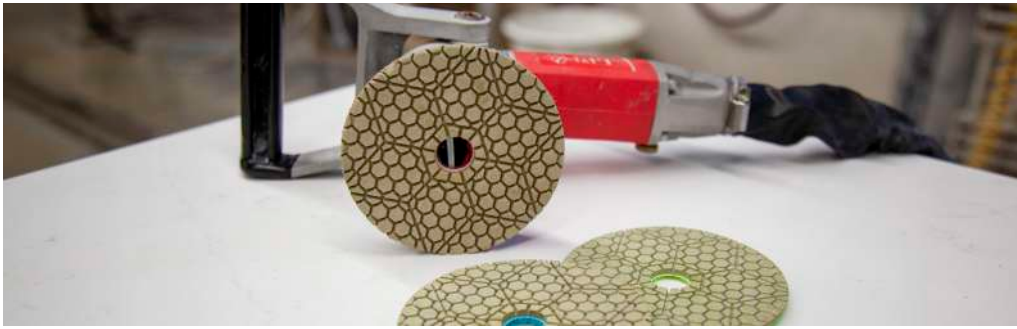


Product specifications

Step	Art. no.
0: calibration	40604
1: grinding	39113
2: fine grinding	39114
3: polishing	39115

Hand-held machine | Use wet | ∅ 100 | ⌀ 15 | Velcro® | 1 pcs.

CER G T E C M

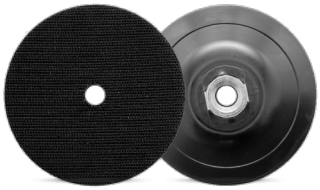


Adapters

KGS Back-Up Pad M14 Velcro®

Back-up pad with Velcro® connection, very stable, for optimal connection.

Art. no.
41183



Ø 100 M14 + Velcro 1 pcs.

KGS Back-Up Pad flexible rubber M14 Velcro®

Flexible rubber back-up pad with Velcro® connection, for KGS DIAMOND polishing discs. Especially for grinding and polishing of geometric shapes and curves.

Art. no.
22007



Ø 100 M14 + Velcro® 1 pcs.

KGS Back-Up Pad M14 Velcro® with 10 mm Foam

Back-up pad with Velcro® connection and industrial foam for more flexibility and a softer grind.

Art. no.
41190



Ø 100 M14 + Velcro® 1 pcs.

KGS M14 Back-Up Pad Aluminum

Aluminium adapter with Velcro® for 100% stability and maximum pressure on your workpiece.

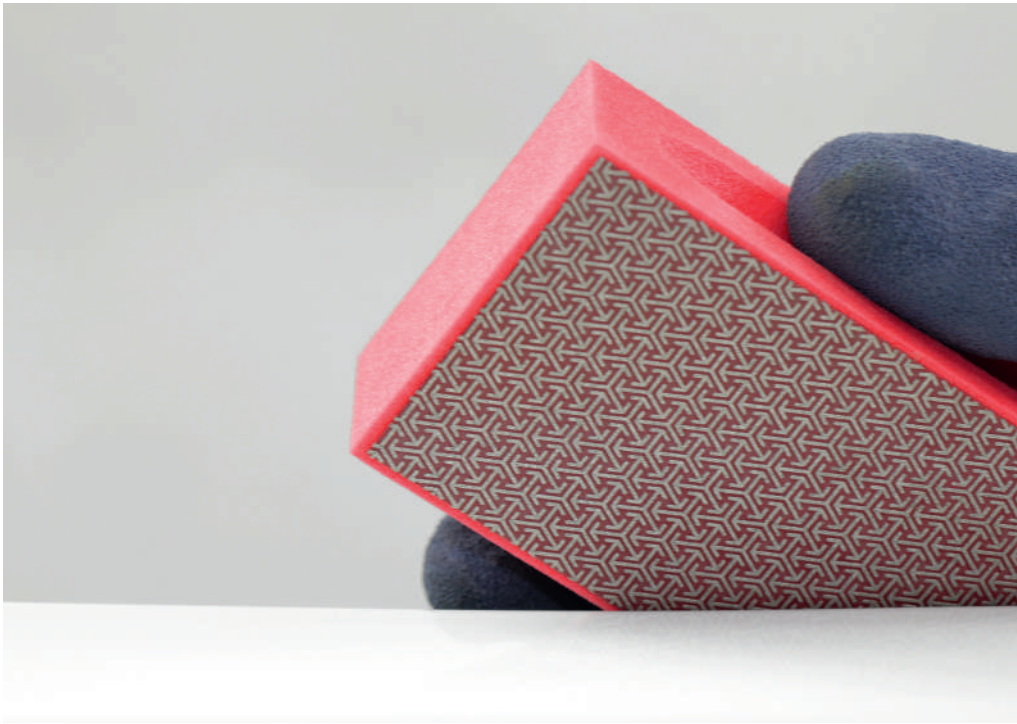
Art. no.
29800



Ø 100 M14 + Velcro® 1 pcs.



Manual polishing



For some jobs, sometimes it is not practical to use a machine. You can still grind or smooth, even polish, hard to reach surfaces, corners or edges with these KGS Diamond Handpads. Whether you want to remove a sharp edge of a ceramic tile or polish ceramics on site with the KGS DIAMOND handpads, you always have the right tool at hand.

A real all-rounder that shouldn't be missed when working on ceramics. The KGS handpad polishing tool can handle just about anything, thanks to the „Swiss Diamond Technology®", the versatility and wide range of applications, and easy handling.

KGS Telum® Diamond Handpad

KGS Telum® diamond handpad, ideal to always have within reach for small jobs, such as making a small bevel on ceramics, repairing scratches or defects and smoothing the side of a kitchen worktop, window sill or stairs.
In addition, the KGS Telum® handpads are great for the sanding of (natural) stone, composite, concrete, and ceramic tiles and are even suitable for glass and wood. Thanks to the diamond abrasive, it has an extremely long service life compared to conventional abrasives.

The KGS Telum® handpad 75x75 series is aavailable for greater flexibility and for sanding round or curved surfaces. These pads are ideal for sanding and polishing round washbasins, sculptures, or working on hard stone doorsteps. Also suitable for working on wider surfaces.



Benefits

- KGS Telum® design for a perfect finish
- "Problem solver," Extremely versatile and suitable for a large number of materials
- High and fast material removal rate
- Very long service life
- Consistent grinding performance
- Easy to use

Product specifications

	60	120	200	400
75x75	14753	14754	14755	14756
90x55	14733	14735	14738	14742

Manual Use wet or dry 1 pcs.

CER G T E C M

Treatment and care



Most types of ceramics require little or no maintenance, but it is often the case that in an industrial environment plates become dirty, which means they have to be cleaned before they move into production. With the KGS K12, K14 and K19 you have the right product at your disposal. Our specialists will also be happy to help you choose the right product, we are there to help you.

For daily maintenance we offer the KGS Total Clean, this set consists of an intensive cleaner and a daily cleaner, ideal for every household.

KGS K12 Multicleaner

K12 Solvent-based multi-purpose cleaner for removing wax and Seals. Effective cleaning of all types of polished and satin Stones, tiles, water and solvent resistant surfaces. Remove sealers, stain protection agents and processing residues.

- Cleaner for removing fresh glue
- Cleaner for the quick removal of impregnation
- Medium dirt cleaner
- Cleaner for the removal of production residues
- Contains solvents
- For all stone or ceramic surfaces
- For all polished or ground surfaces
- Applicable inside and outside



Content	Art.no.
1000 ml	40807

! Not for plastic.



KGS K14 Deep Cleaning

K14 Concentrated alkaline cleaner and degreaser. Effective removal of heavy dirt, organic oils and grinding residues.

- Diluted cleaner for daily use
- Cleaner for medium to heavy soiling as a concentrate
- Alkaline cleaner pH 10-11
- Depending on the dilution for light to heavy soiling
- For all polished or ground surfaces
- For all stone or ceramic surfaces
- In concentrated form, removes impregnation products
- Prevents mold growth
- Biodegradable
- Concentrate, can be diluted
- Applicable inside and outside



Content	Art.no.
1000 ml	51016

KGS K19 Cement Film Remover

K19 Acidic special cleaning agent from a combination of different acids, ideal for removing mortar, cement and adhesive residues, Limescale deposits, mortar, efflorescence salts.

- Strong acidic cleaner pH 1
- For heavy lime contamination
- For the removal of joint residues
- For the removal of cement veil
- Please dilute for light soiling
- For granite, cast stone and unglazed ceramics
- Applicable inside and outside

! Be careful with polished materials, plastic, aluminum, and marble-like stones that contain a lot of lime



Content	Art.no.
1000 ml	51017

KGS Total Clean
Universal Set

KGS Total Clean set contains

- KGS Total Clean Daily Cleaner
- KGS Total Clean Intensive Cleaner
- 1 Mikrofiber Cloth

Product specifications

Art.no.
39433



Daily Cleaner 250 ml with Sprayer

Slightly alkaline cleaner for daily cleaning of all surfaces.



- Daily use cleaner
- Alkaline pH 10
- For all polished and rough surfaces
- For stone and ceramics
- For light to medium soiling
- Ready to use
- Applicable inside and outside

Intensive Cleaner 250 ml

Intense, strong cleaner for the removal of stubborn dirt. Can be used on granite, marble, concrete, engineered stone and ceramics.



- Cleaner for difficult stains or impurites
- Alkaline cleaner pH 14
- For all polished or ground surfaces
- For all stone or ceramic surfaces
- For light to heavy soiling
- Can also be used diluted
- Ready to use!
- Applicable inside and outside

KGS Ceramic Clean Set

Ideal set for cleaning ceramic surfaces such as kitchen worktops, countertops and wall and floor tiles.

The KGS Ceramic Clean Set consists of the KGS K18 cleaner supplied with a microfiber cloth.

Product specifications

Art.no.

41617



KGS K18 Ceramic Cleaner

environmentally friendly, fruit acid-based cleaner for ceramic walls, floors and worktops. Removes limescale deposits and leaves a pleasant smell.

- Cleaning polished and ground ceramics and granite
- Ready for immediate use
- Leaves a pleasant smell
- Removes limescale deposits
- Corrosion-protecting properties
- Can be used on stainless steel surfaces
- Biodegradable
- Suitable for indoor and outdoor use
- Fruit acid-based cleaner (pH value 3)




KGS
KGS

Adhesives



For bonding or reinforcing ceramic kitchen worktops KGS Diamond has a special line of adhesives that are slightly flexible and shock-absorbing. The adhesives are available in different colours and drying times, there is a suitable adhesive for every production process.

In addition, KGS DIAMOND, as an official Integra dealer, offers various Integra adhesives for bonding facets. The bonder XI , ideal for adhesive jobs indoors and the Integra Ultra, suitable for outdoor use and resistant to UV radiation. The adhesives are available in all common colours. For a colour chart, please download the Integra app or contact our customer service.

KGS PU-2001 Cartridge Glue Fast

KGS PU-2001 glue 2x25ml for a quick mounting job.



Due to its high strength, the KGS PU series are excellent for fast constructive bonding. This small version of PU adhesive is ideal for repairmen. Very suitable for small jobs on location or in the workshop.

Product specifications

Content	Art. no.
2x25 ml	19251

KGS Mixertips

Very high quality mixertips

Use for	Art. no.
2x25 ml	39665





KGS PU Glue Cartridge

Due to its high strength, the KGS PU series are excellent for constructive bonding of stiffening profiles. Different kind of materials can be joined easily. Because of the high strength of the KGS PU serie, high bending forces are absorbed by the glue before the stone is breaking. This increases the stability of your worktop. The bonding of two or more very dense materials isn't any problem for the PU serie. When using the PU serie (a 2-component adhesive cartridge), the KGS mixertip is required to avoid mixing errors.

Benefits

- High final strength
- Shore hardness 85 D
- High flexural strength
- High tensile strength
- Heat resistant up to 110°C
- For indoor and outdoor use
- Non foaming
- No shrinkage

Fast PU glue

KGS PU-1001 (white) and KGS PU-1011 (black). Fast functional strength (next workstation): after about 30 min.

Type	Content	Colour	Art. no.
PU-1001	2x310 ml	White	19244
PU-1011	2x310 ml	Black	19246



Super fast PU glue

KGS PU-2001(white) and KGS PU-2011 (black). Fast functional strength (next workstation): after about 15 min.

Type	Content	Colour	Art. no.
PU-2001	2x310 ml	White	19245
PU-2011	2x310 ml	Black	27231



KGS Mixertips

Very high quality mixertips

Use for	Art. no.
2x310 ml	19280



Guns for KGS PU Glue, 2x310 ml

KGS pneumatic gun, heavy duty version

Art. no.
33608



KGS pneumatic gun

Art. no.
19269



KGS handgun

Art. no.
19268



Guns for KGS PU Glue, 2x25 ml

KGS handgun, small

Art. no.
49869





Integra Surface Bonder Rapid

Integra Surface Bonder Rapid offers the same great advantages as Integra Surface Bonder XI, like perfect colour matches for thousands of surfaces. Surface Bonder Rapid goes even further with superior bond strength on natural stone and ceramic materials. Plus, the non-sag formula minimises drips to reduce mess and wasted product.

The non-sag properties of the adhesive make it ideal for mitered edges or other kitchen top seams. The adhesive stays right where you put it. Integra Surface Bonder Rapid is also great for vertical applications, it's the perfect adhesive for mitre joints and deck seam installations. Easy assembly, no mess.

Integra Surface Bonder Rapid comes packaged in 250 ml 10:1 cartridges and is compatible with the standard Integra Adhesives 250 ml dispenser, as well as any other 250 ml dispenser.

Integra Surface Bonder Rapid is offered in multiple colours matching the most popular Ceramic, Quartz and Stone designs in the industry. There is also a wide range of true whites available for all the trending white colours.

Benefits

- Rapid Sag, no drips, no mess
- Auto-dispense system
- Invisible seams
- Pre-mixed colours for many different materials
- High strength on non-porous ceramic
- Shelf life 2 years
- Working time 9 - 14 minutes

Colour matching

Integra is known industry wide for its excellence in matching colours. The lab uses a combination of technical equipment and experience to produce unrivalled colour matches for every surface. Colour match charts are updated regularly with new matches for new sheets from manufacturers. Most common Ceramic, Quartz and Natural Stone slabs can be matched with our line of Integra Surface Bonder.

Workable materials

Integra Surface Bonder Rapid can be used on the following materials

- Ceramics
- Engineered stone
- Quartz
- Compact sintered materials
- Natural stone products, like marble and granite

Product specifications

Integra Surface Bonder Rapid is packaged in dual component cartridges as part of a meter/mix/dispense system utilizing a specialized dispensing gun and static mixing tips.Surface Bonder Rapid is currently available in 250ml cartridge sizes. KGS has a wide range of standard Rapid colours on stock. Other colours can be ordered in small quantities of 6 pieces a time.

Characteristic:	Integra Surface Bonder Rapid
Working time:	4 - 8 minutes
Fixture time:	10 - 16 minutes
Operating temperature:	18°C - 30°C*
Mix ratio:	10:1
Flexural strength – Natural stone:	> 4,000 PSI / Substrate Failure
Flexural strength – Quartz:	> 4,000 PSI
Flexural strength - Sintered material:	> 4,000 PSI
Shelf life:	2 years

* Use at temperatures below 10-12°C may cause incomplete cure, yellowing and poor bonding strength. Above 30°C the adhesive will cure faster.



Product overview

Colour name	Colour code	Colour	Art. no.
Satin Black	3062		41156
Pumice	3149		49678
Mocha	3121		41152
Tiffany Grey	3022		41139
Slate	3060		49676
Amazon	3098		49640
Medea	3186		50273
Vela Brown	2407		49971
Earth	3077		49973
Espresso	3104		41142
Desert	2197		41143
Raton	3132		41141
Newport Grey	2360		49974
Cloud	3063		41144
Newgale Grey	2340		50379
Silver	3129		49641
Cinder	3074		41174
Stellar Grey	2403		41132
Seashell	3035		41091
Oyster	3065		41093
Meteor Grey	2320		41094
Dove	3150		41095
Quarry	2375		41083
Oscuro	3142		41171
Iron Grey	3064		41080

Colour name	Colour code	Colour	Art. no.
Storm Grey	2402		41145
Raven	3073		50239
Nacreto	3131		41147
Flint	2220		41146
Onyx	3243		50285
Cygnus Pearl	2195		41149
Neutral	3029		50283
Limestone	2280		50280
Beach	2065		41151
Diana Pearl	2200		41150
Lunar Pearl	2283		49677
Crystal Clear	1000		41133
Chameleon	3008		41134
Aqueous	3097		50284
Transparent White	0271		41135
Bright White	3011		50279
Glacier White	3006		50275
Pure White	190		50282
White	2420		41136
Winter White	3181		50178
Perfect White	3172		41137
Zenith	3276		50274
Nougat	3099		41140
White North	2440		41138

Content: 250 ml 1 pcs. Supplied incl. 2 mixer tips

Integra Surface Bonder Ultra

Integra Surface Bonder Ultra is a premium, UV stable, Modified Hybrid Polyaspartic surfacing adhesive for indoor and outdoor applications. High strength bonding on today's trending surfaces, whether polished, honed or textured seams. Pre-mixed in many popular colours on materials like: glass, ceramics, engineered stone, quartz, compact sintered materials and natural stone products, like marble and granite

Integra Surface Bonder Ultra is an adhesive specifically designed for many different materials. Integra Surface Bonder Ultra is an unique adhesive that will not yellow, stain, or bleed and making it perfect for white and light colour stones. Surface Bonder Ultra contains almost no VOC's and is not classified as a hazardous material.

Integra Surface Bonder Ultra comes packaged in 215 ml 2:1 cartridges and is compatible with the standard Integra Adhesives 215 ml dispenser, as well as any other 215 ml dispensers. Integra Surface Bonder Ultra is offered in colours to withstand weather and sunlight exposure while matching the most popular Ceramic, Quartz and Stone designs in the industry .

Benefits

- UV resistant
- Weather Resistant
- Outdoor and indoor use
- Will not yellow, stain, or bleed
- Auto-dispense system Invisible seams
- Pre-mixed for many different materials
- High strength on ceramic
- Working time 9 - 12 minutes

Colour matching

Integra is known industry wide for its excellence in matching colours. The lab uses a combination of technical equipment and experience to produce unrivalled colour matches for every surface. Colour match charts are updated regularly with new matches for new sheets from manufacturers. Most common Ceramic, Quartz and Natural Stone slabs can be matched with our line of Integra Surface Bonder Ultra.

Product specifications

Integra Surface Bonder Ultra is packaged in dual component cartridges as part of a meter/mix/dis-pense system utilizing a specialized dispensing gun and static mixing tips. Integra Surface Bonder Ultra is currently available in 215 ml cartridge sizes.

KGS has the whole range of standard Ultra colours on stock.

Characteristic:	Integra Surface Bonder Ultra
Working time:	9 - 12 minutes (Tacky free at 25°C;50% relative humidity, 50 - 55 minutes)
Fixture time:	90 - 110 minutes
Operating temperature:	18°C–30°C *
Viscosity – adhesive:	40,000–400,000 cps / Thixotropic
Viscosity – activator:	Thixotropic liquid
Mix ratio:	2:1
Flexural strength – Natural stone:	> 4,000 PSI
Flexural strength – Quartz:	> 4,000 PSI
Flexural strength – Engineered stone:	> 4,000 PSI
Shelf life:	1 year

* Use at temperatures below -20°C or above 60°C may cause incomplete cure, yellowing and poor bonding strength.

Product overview

Type	Colour	Art. no.
Earth 3077		41163
Newport Grey 2360		41159
Iron Grey 3064		41160
Diana Pearl 2200		41161
Butterscotch 0050		41162
Chameleon 3008		41158
Perfect White 3172		41157



Content: 215 ml 1 pcs. Supplied incl. 2 mixer tips

Integra mixertip Surface Bonder Ultra

Type	Art. no.
Sorface Bonder Ultra 215 ml	21009

1 pcs.



Integra mixertip Surface Bonder

Type	Art. no.
Surface Bonder 250 ml	21007

20 pcs.



Integra handgun

Type	Art. no.
Surface Bonder Ultra 215 ml	22230
Surface Bonder 250 ml	22228

1 pcs.



Integra pneumatic gun

Type	Art. no.
Surface Bonder 250 ml	39092

1 pcs.




Surface
Bonder


DEKTON



More KGS tools?

We have several catalogs full of (diamond) tools for you. You can download them on our website www.kgsdiamondtools.com



Diamond tools, adhesives & maintenance products for the stone industry - Part A

In this catalog you will find a wide range of diamond tools for the stone industry, complemented by an extensive maintenance and chemical program and the necessary accessories.

Available in English and Dutch



Tools, accessories, adhesives & maintenance products for the stone industry - Part B

In addition to our own manufactured diamond products, we offer a wide range of tools and accessories for the stone industry. In cooperation with our loyal suppliers we can be your one-stop-shop supplier in the stone industry.

Available in English and Dutch



Diamond tools for the flooring industry

In this catalog you will find diamond tools for sanding and polishing concrete and marble floors. You will also find our KGS FLEXIS® diamond pads for floor maintenance and cleaning as well as a chemical program.

Available in English



Diamond tools for the construction industry

In this catalog you will find our KGS RED™ program. A complete range of diamond tools for construction professionals. From large saw blades to concrete drills, tile drills and various types of grinding and polishing discs.

Available in English and Dutch

Diamond tools for hardware industry

In this catalog you will find a selection of our KGS RED™ program, especially for specialists in building materials and tiles. From saw blades to tile drilling and grinding and polishing discs.

Available in English and Dutch





Contact information

Interested in one of our products or a question? Please contact us and we will be happy to help you.

You can also consult one of our specialists for technical support. We can be called from 8 a.m. to 5 p.m. on weekdays on +31 525 68 55 00 or visit our webshop www.kgsdiamondtools.com

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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.

Usage

Respect the maximum speed

Find the wheel's maximum speed rating, and don't surpass that speed. Exceeding the rated speed by even a small amount can result in considerable added stress on the wheel, putting operator safety at risk.

Reference speed conversion table

Maximim operating speed m/s

Speed of Rotation 1/m

Ø in mm

	16	20	25	32	35	40	45	50	63	80
6	51000	64000	80000	102000	112000	128000	143240	160000	201000	-
8	38200	48000	60000	76500	84000	95500	107430	120000	150500	191000
10	30600	38200	48000	61200	67000	76500	86000	95500	120500	153000
13	23550	29500	35600	47100	51500	58800	66500	73500	92600	118000
16	19100	23900	29850	38200	41800	47800	54000	59700	75200	95500
20	15300	19100	23900	30600	33500	38200	43000	47800	60200	76500
25	12300	15300	19100	24500	26800	30600	34400	38200	48200	61200
32	9550	11950	14950	19100	20900	23900	26900	30000	37600	48000
40	7650	9550	11950	15300	16750	19100	21500	23900	30100	38200
50	6150	7650	9550	12250	13400	15300	17200	19100	24100	30600
63	4850	6100	7600	9750	10650	12150	13650	15200	19100	24300
80	3850	4800	6000	7650	8400	9550	10750	12000	15100	19100
100	3100	3850	4800	6150	6700	7650	8600	9550	12100	15300
115	2700	3350	4200	5350	5850	6650	7500	8350	10500	13300
125	2450	3100	3850	4900	5350	6150	6900	7650	9650	12250
150	2050	2250	3200	4100	4500	5100	5750	6400	8050	10200
180	1700	2150	2700	3400	3750	4250	4800	5350	6700	8500
200	1550	1950	2400	3100	3350	3850	4300	4800	6050	7650
230	1350	1700	2100	2700	2950	3350	3750	4200	5250	6650
250	1250	1550	1950	2450	2700	3100	3450	3850	4850	3150
300	1050	1300	1600	2050	2250	2550	2870	3200	4050	5100
350/356	875	1100	1400	1750	1950	2200	2450	2750	3450	4400
400/406	765	960	1200	1550	1700	1950	2150	2400	3050	3850
450/457	680	850	1100	1400	1500	1700	1950	2150	2700	3400
500/508	615	765	960	1250	1350	1550	1750	1950	2450	3100
600/610	510	640	800	1050	1150	1300	1450	1600	2050	2550

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