

Diamond Grinding Tooling Guide

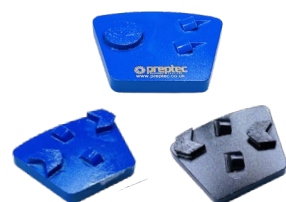
Preptec Diamond tooling has been well proven in the UK and Ireland markets for over 10 years with thousands of m2 successfully ground. A simple formula of premium quality tooling providing high production rates at mid range prices has established Preptec diamond tools as a popular choice for flooring professionals.

Fastfit tooling

A grinding system for use with most types of floor grinding equipment. Fastfit tooling can be changed in seconds allowing the easy change of worn tooling or to another grit or bond. This system supersedes the original trapezoid type tooling that is held in place with fixing screws. Fastfit grinding tools are 13mm double segment available in a range of grit sizes and colour coded bonds for general grinding and early stage polishing applications.

PCD tooling

Polycrystalline tooling is extremely hard and effectively mills the product to remove from the sub floor. This tooling also has a conventional diamond grit segment to act as a support to stop the tooling from cutting deep into the lower surface. PCD tools are available in Fastfit, bolt on plates and also in cup disc configurations.

Fastfit Tool Guide			Soft Concrete	Med Concrete	Hard Concrete	Extra Hard Concrete	Cement Tile Adhesive	Asphalt Tile Adhesive	Thin Coatings 1-2 mm	Thick Coatings 3mm +	Waterproof Membrane	Levelling Compounds	Cement Based Screed	Anhydrite Screed*	PU Coatings	Fleece Carpet Backing
	Black	Soft Floor														
	FF16HB	16 grit hard bond	✓				✓						✓			
	FF30HB	30 grit hard bond	✓										✓			
	FF80HB	80 grit hard bond	✓													
	FF120HB	120 grit hard bond	✓													
	Blue	Med Floor														
	FF16MB	16 grit med bond		✓			✓	✓	✓			✓			✓	
	FF30MB	30 grit med bond		✓					✓			✓		✓		
	FF80MB	80 grit med bond		✓												
	FF120MB	120 grit med bond		✓												
	Silver	Hard Floor														
	FF16SB	16 grit soft bond			✓											
	FF30SB	30 grit soft bond			✓									✓		
	FF80SB	80 grit soft bond			✓											
	FF120SB	120 grit soft bond			✓											
	Purple	Extra Hard Floor														
	FF16XSB	16 grit x soft bond				✓										
	Orange	Extra Hard Floor														
	FF30XSB	30 grit x soft bond				✓									✓	
PCD - tooling offers an aggressive grinding option for the removal of surface overlays																
	A/clockwise Blue	PCD tool														
	FFPCDAC	PCD tool					✓	✓		✓	✓	✓				✓
	FFPCDAAC	PCD Arrow								✓	✓					✓
	Clockwise Black	PCD tool														
	FFPCDC	PCD tool					✓	✓		✓	✓	✓				✓
	FFPCDACW	PCD Arrow								✓	✓					✓
	PCDSPLIT	Split PCD tool - Gold						✓	✓			✓			✓	✓
Fastfit tooling also available with a narrow wedge lock to fit the following equipment																
	Wolff / Scanmaskin	Med Floor														
	WS16MB	16 grit med bond		✓			✓	✓	✓			✓			✓	
	WS30MB	30 grit med bond		✓					✓			✓		✓		
		Hard Floor														
	WS30SB	30 grit soft bond			✓									✓		
		Soft Floor														
	WS30HB	30 grit hard bond	✓										✓			
		PCD tool														
	WSPCDAC	PCD tool A clockwise					✓	✓		✓	✓	✓				✓

*Anhydrite Screed curing for 7-30 days MB tools / 30 + days SB tools / 40 + days XSB tools

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An important part of floor grinding is to select the correct bond of tool to suit the hardness of the surface. Use a hard bond tool on a hard surface and it will heat up, glaze and stop cutting, use a soft bond tool on a soft surface and the wear will be increased without getting the full benefit of the diamond grit being rapidly exposed. One way to test the surface and select the correct tool is by using a Mohs test kit.

Description	Application	Mohs Scratch Test	
Fastfit tool HB - Black	Soft Concrete	Between 2-3	
Fastfit tool MB - Blue	Medium Concrete	Between 3-5	
Fastfit tool SB - Silver	Hard Concrete	Between 5-7	
Fastfit tool XSB - Orange	Purple Extra Hard Concrete	Between 7-10	

Adaptor plates

A wide range of Fastfit adaptor plates are available to fit most brands of grinding equipment including HTC , Blastrac , Scanmaskin , SPE and Terrco.

			
FF250TI - 250mm Plate	FFHTC - 230mm Plate	FFWING - EZ Adaptor	FFBOLT - Bolt on Adaptor

Resin tooling

Resin tooling follows metal bond tooling as the next step of the concrete polishing. Tools attach to the tool plate using a Velcro hook fitting. Ceramic tool options are also available to bridge the step between metal and resin tools with the benefit of reduced heat and scratch pattern removal.

	Part No	Description
	DIAPUCK50	75mm Resin Puck - 50 Grit
	DIAPUCK100	75mm Resin Puck - 100 Grit
	DIAPUCK200	75mm Resin Puck - 200 Grit
	DIAPUCK400	75mm Resin Puck - 400 Grit
	DIAPUCK800	75mm Resin Puck - 800 Grit
	DIAPUCK1500	75mm Resin Puck - 1500 Grit
	DIAPUCK3000	75mm Resin Puck - 3000 Grit

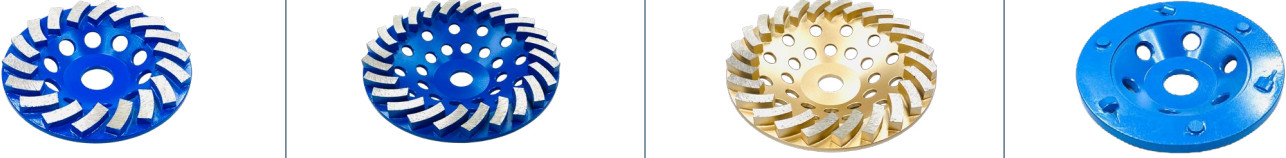
Grinding Plates

Preptec 250mm grinding plates are premium quality with 16 x 10mm highly concentrated segments. These plates are balanced to ensure even wear and long life. Available to fit most makes of grinding equipment for wet or dry use.

			
Part No	Description	Application	
DIA250SB30	Grinding Plate 30g Soft Bond - Silver	Grinding of harder concrete surfaces	
DIA250MB30	Grinding Plate 30g Med Bond - Blue	Grinding of concrete surfaces - general purpose	
DIA250HB30	Grinding Plate 30g Hard Bond - Black	Grinding of softer concrete and asphalt surfaces	
DIA250MB10	Grinding Plate 10g Med Bond - Gold	Coarse grinding applications where PCD is too aggressive, thin coating and adhesive removal	
DIA250PCDAC	Grinding Plate PCD A/clockwise - Blue	Removal of thick coatings, levelling compounds, adhesive and membranes from hard sub floors	
DIA250PCDC	Grinding Plate PCD clockwise - Black		

Cup Grinding

Preptec cup discs are manufactured in turbo configuration with either 6mm or 10mm deep segments providing fast grinding and a long life. A range of grit sizes are available for aggressive grinding / removal applications and for general surface grinding. Used with hand held equipment for grinding and preparing concrete surfaces, removing thin coatings and adhesive residue. Operated dry in conjunction with a dust control cowl and vacuum. PCD options are available for aggressive removal applications

			
Part No	Diameter	Description	Application
DIA125T30	125mm Blue	Turbo Cup Disc - MB 30g	General grinding applications with hand tools , removal of laitance fitted to rotary preparation machines
DIA180T30	180mm Blue	Turbo Cup Disc 24 x 6mm seg - MB 30g	
DIA180ST30	180mm Blue	Turbo Cup Disc 24 x 10mm seg - MB 30g	
DIA180ST10	180mm Gold	Turbo Cup Disc 24 x 10mm seg - MB 10g	Coarse grinding applications, thick coating and laitance removal
DIA180SB30	180mm Silver	Turbo Cup Disc 24 x 10mm seg - SB 30g	Grinding of hard concrete and laitance removal
DIA180XSB30	180mm Orange	Turbo Cup Disc 24 x 10mm seg - XSB 30g	Grinding of extra hard concrete
DIA180MB80	180mm White	Turbo Cup Disc 24 x 10mm seg - MB 80g	Leaves a finer ground finish after 30g tooling
DIAPCD125	125mm	PCD Cup Disc	Removal of thick coatings, levelling compounds, adhesive and membranes from hard sub floors
DIA180PCD	180mm	PCD Cup Disc	

Preptec Ireland

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Contact us for more information

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