

# 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                                                                     |                           |                         | Extra Soft Concrete | Soft Concrete | Med Concrete | Hard Concrete | Extra Hard Concrete | Super 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 |
|----------------------------------------------------------------------------------------|---------------------------|-------------------------|---------------------|---------------|--------------|---------------|---------------------|---------------------|----------------------|-----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|-------------------|-------------|-----------------------|
|      | <b>Green</b>              | <b>Extra Soft Floor</b> |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF30XHB                   | 30 grit x hard bond     | ✓                   |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     | ✓                   |                   |             |                       |
|                                                                                        | <b>Black</b>              | <b>Soft Floor</b>       |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF16HB                    | 16 grit hard bond       |                     | ✓             |              |               |                     |                     | ✓                    |                       |                      |                      |                     |                     | ✓                   |                   |             |                       |
|                                                                                        | FF30HB                    | 30 grit hard bond       |                     | ✓             |              |               |                     |                     |                      |                       |                      |                      |                     |                     | ✓                   |                   |             |                       |
|                                                                                        | FF80HB                    | 80 grit hard bond       |                     | ✓             |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF120HB                   | 120 grit hard bond      |                     | ✓             |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | <b>Blue</b>               | <b>Med Floor</b>        |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF16MB                    | 16 grit med bond        |                     |               | ✓            |               |                     |                     | ✓                    | ✓                     | ✓                    |                      |                     | ✓                   |                     |                   | ✓           |                       |
|                                                                                        | FF30MB                    | 30 grit med bond        |                     |               | ✓            |               |                     |                     |                      |                       | ✓                    |                      |                     | ✓                   |                     | ✓                 |             |                       |
|                                                                                        | FF80MB                    | 80 grit med bond        |                     |               | ✓            |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF120MB                   | 120 grit med bond       |                     |               | ✓            |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | <b>Silver</b>             | <b>Hard Floor</b>       |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF16SB                    | 16 grit soft bond       |                     |               |              | ✓             |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF30SB                    | 30 grit soft bond       |                     |               |              | ✓             |                     |                     |                      |                       |                      |                      |                     |                     |                     | ✓                 |             |                       |
|                                                                                        | FF80SB                    | 80 grit soft bond       |                     |               |              | ✓             |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF120SB                   | 120 grit soft bond      |                     |               |              | ✓             |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | <b>Purple</b>             | <b>Extra Hard Floor</b> |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF16XSB                   | 16 grit x soft bond     |                     |               |              |               | ✓                   |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | <b>Orange</b>             | <b>Extra Hard Floor</b> |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF30XSB                   | 30 grit x soft bond     |                     |               |              |               | ✓                   |                     |                      |                       |                      |                      |                     |                     |                     | ✓                 |             |                       |
|                                                                                        | <b>Yellow</b>             | <b>Super Hard Floor</b> |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FF30XXSB                  | 30 grit xx soft bond    |                     |               |              |               |                     | ✓                   |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
| PCD - tooling offers an aggressive grinding option for the removal of surface overlays |                           |                         |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|     | <b>A/clockwise Blue</b>   | <b>PCD tool</b>         |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | FFPCDAC                   | PCD tool                |                     |               |              |               |                     |                     | ✓                    | ✓                     |                      | ✓                    | ✓                   | ✓                   |                     |                   |             | ✓                     |
|                                                                                        | FFPCDAAC                  | PCD Arrow               |                     |               |              |               |                     |                     |                      |                       |                      | ✓                    | ✓                   |                     |                     |                   |             | ✓                     |
|                                                                                        | <b>Clockwise Black</b>    | <b>PCD tool</b>         |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | 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 |                           |                         |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|     | <b>Wolff / Scanmaskin</b> | <b>Med Floor</b>        |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | WS16MB                    | 16 grit med bond        |                     |               | ✓            |               |                     |                     | ✓                    | ✓                     | ✓                    |                      |                     | ✓                   |                     |                   | ✓           |                       |
|                                                                                        | WS30MB                    | 30 grit med bond        |                     |               | ✓            |               |                     |                     |                      |                       | ✓                    |                      |                     | ✓                   |                     | ✓                 |             |                       |
|                                                                                        |                           | <b>Hard Floor</b>       |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | WS30SB                    | 30 grit soft bond       |                     |               |              | ✓             |                     |                     |                      |                       |                      |                      |                     |                     |                     | ✓                 |             |                       |
|     |                           | <b>Soft Floor</b>       |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | WS30HB                    | 30 grit hard bond       | ✓                   |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     | ✓                   |                   |             |                       |
|                                                                                        |                           | <b>PCD tool</b>         |                     |               |              |               |                     |                     |                      |                       |                      |                      |                     |                     |                     |                   |             |                       |
|                                                                                        | WSPCDAC                   | PCD tool A clockwise    |                     |               |              |               |                     |                     | ✓                    | ✓                     |                      | ✓                    | ✓                   | ✓                   |                     |                   |             | ✓                     |

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

# Diamond Grinding Tooling Guide

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 | MPa     |  |
|----------------------------|----------------------------|-------------------|---------|-------------------------------------------------------------------------------------|
| Fastfit tool XHB - Green   | Extra Soft Concrete        | Between: 2-3      | C10-C20 |                                                                                     |
| Fastfit tool HB - Black    | Soft Concrete              | Between: 3-4      | C15-C25 |                                                                                     |
| Fastfit tool MB - Blue     | Medium Concrete            | Between: 4-5      | C30-C40 |                                                                                     |
| Fastfit tool SB - Silver   | Hard Concrete              | Between: 5-6      | C35-C45 |                                                                                     |
| Fastfit tool XSB - Orange  | Purple Extra Hard Concrete | Between: 6-7      | C40-C50 |                                                                                     |
| Fastfit tool XXSB - Yellow | Super Hard Concrete        | Between: 8-9      | C50-C65 |                                                                                     |

## 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 |

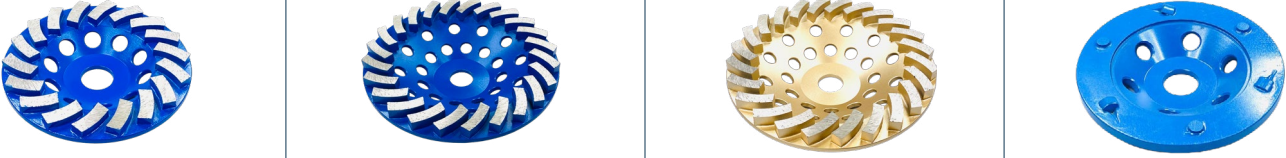
## Grinding Plates

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                           |                                                                                                           |



## Contact us for more information

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