

## Grinding of Concrete – Pro Grind

To remove laitance on new placed concrete floors is fast and easily done with the modern light grinders and suitable tools that today are available.

And to grind concrete floors with modern diamond tools is a highly efficient, and environmental kind method to:

Grind away irregularities before floors are covered with carpets, linoleum, etc. Earlier spackling compounds were used for this purpose, but grinding with modern tools is superior.

Grind away self-levelling compounds (SLC). SLC's are often a reason for Sick-House Syndrome (SHS) caused by bacteria and fungi who multiply in some SLC's. With allergies as a result.

Grind away adhesive residues when carpets, tiles, etc. are removed. Even glue based on asphalt where sometimes carton (0.5 mm) can be involved. Residues that are time-consuming to remove with conventional methods. Where special tools can remove such coatings with a capacity of one m<sup>2</sup> per minute.

Grind away paint coatings. Where paints based on epoxies or urethanes (PU) can be difficult to remove when grinders with conventional tools just "slides" on the surface.

Grinding is an aggressive abrasive process (grit <100) to remove large stocks of surface. The grinding is necessary where the surface is uneven. The process is normally used when the difference exceeds 3 mm, or when a flat floor is desired. Start to use metal-bonded segments grit 30 or 60 to get even surfaces without spackling.

Should a more even surface be wanted, continue with grit 100. Should it be a floor as retail store, warehouse, etc., there is no need of another floor coating. Instead continue with grit 200 and 500 plus consolidation with **Pro Reactive Sealers** where the result will be a very smooth floor and easy to clean. That also withstands all normal chemicals.

Should colouring be made with **Pro Reactive Stain** levels 120-150 grits are enough. That means normally three steps instead of 7-8 steps valid for Polished Concrete.

To remove old coatings of paint or adhesive, in general terms the following is valid:

Thickness (mm)	>2	>0.5-2	>0.2-0.5	>0.2-0.3	>0.1-0.3	<0.1
Grit	3	6	12/16	30	40	60

Essential is to use correct grinding pressure in order to achieve wanted result, as well as to avoid unnecessary load on the segments.

Keep in mind that at grinding, per mm thickness and m<sup>2</sup>, about 1.5 kg of dust is generated. A grinding dust that must be collected, and deposit with correct EWC-code according to valid regulations.

So in case 3 mm is to be grind away, it is the question of about 5 kg per m<sup>2</sup>. At a capacity of 30 m<sup>2</sup> per h, about 150 kg of grinding dust must be collected. Suitable vac in combination with a Pre-Separator that normally collects 80-95% is a must.

When so 120-145 kg of the grinding dust will be collected by the Pre-Separator without stressing the vac's filter.

Our own products within this niche are various sealers for the consolidation of the concrete, and a special cleaner with lithium why it continues to fortify the strength of mineral floors over time, maintaining a harder low-maintenance floor.

Moreover, we can recommend suitable floor grinders and tools with prices normally half as much in comparison with corresponding available on the market.

For our clients there are detailed directions and instructions available why large savings can be done.

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