



CONCRETE FLOOR TREATMENTS

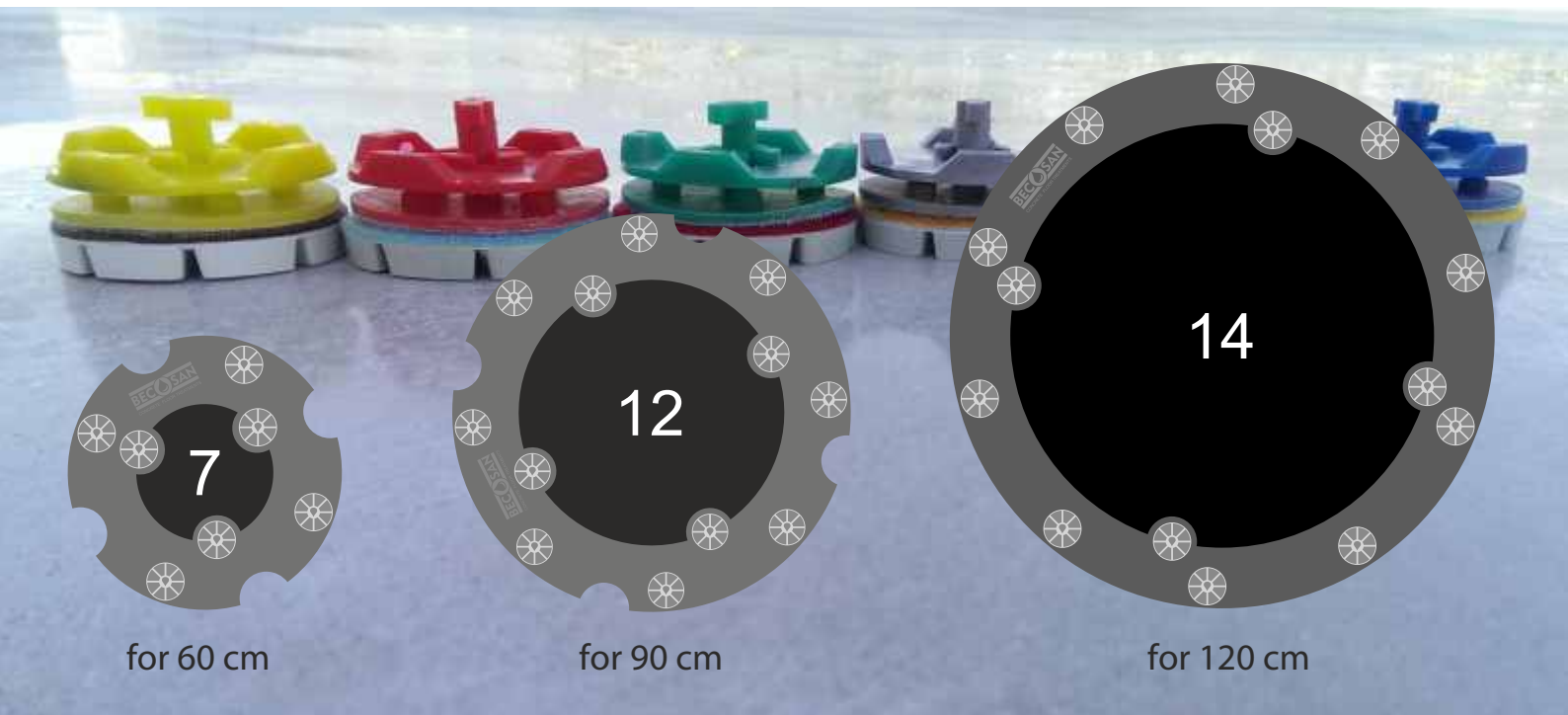


QUICK GUIDE SETUP & DIRECTIONS



www.becosan.com
Concrete flooring professionals

SIZE OF PAD & NUMBER OF DISCS



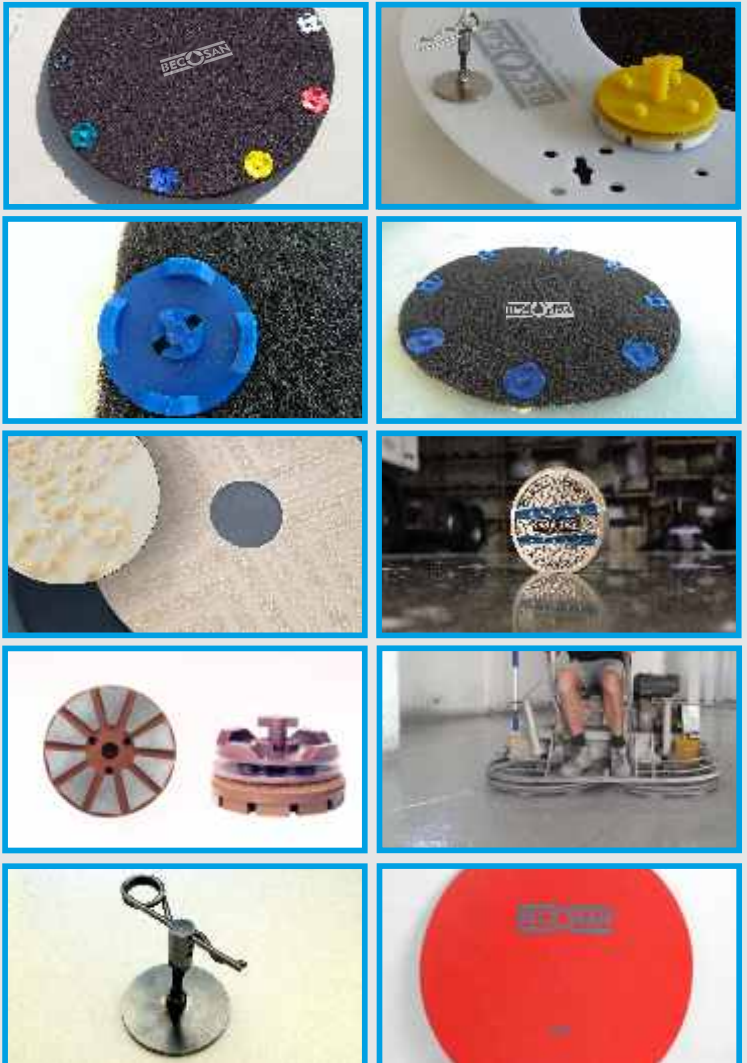
BENEFITS FOR APPLICATORS

- Power trowel application
- Fast and easy installation (1000+ m2 a day)
- Increase profit-margins
- Cost-effective solution
- Polished concrete industry is growing

The system is specially designed for concrete flooring professionals and for industrial use. The system utilizes conventional power trowels and the discs are easily attached, removed and replaced. Place the clip holder, make a small cut in the specially designed pad and pull the clip of the disc through the clip holder. The pad and both parts of the disc are now fixed together. Attach the pad to the floating pan with the velcro attachment-system and place it underneath the power trowel and you are ready to begin the process.

BENEFITS FOR BUILDING OWNERS

- Reduces maintenance & repairs dramatically
- Increases durability more than 400%
- More resistant to abrasions
- Reduces water & oil penetration - less staining
- Dust-free floor - better Health & Safety



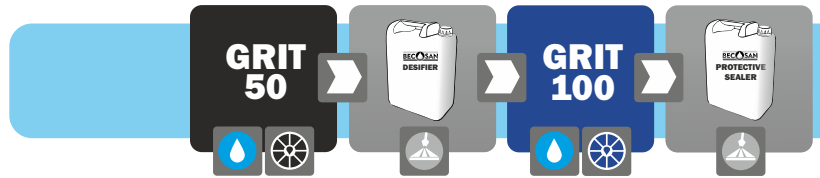
SYSTEM OPTIONS

THE SYSTEM PROVIDES MULTIPLE LEVELS OF CONCRETE POLISHING WITH DIFFERENT FINISHES.

BASIC MAT - FINISH

This 2-step basic-system is for newly installed floors where the objective is to create a smooth surface, and remove trowel-marks and curing compounds. The floor will not get any gloss but the micro-roughness will be removed, making the floor easier to clean.
CERTIFIED - ANTI-SLIP ACCORDING TO DIN 51131. Valuation: VERY SAFE.

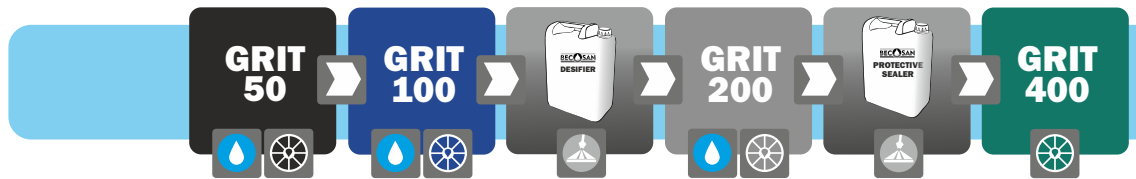
- 1 Prepare power trowel with Grit 50 (black), apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 2 Remove the slurry/water with cleaning-machine/wet-vacuum. The floor must be clean and completely dry before moving onto the next step.
- 3 Apply the BECOSAN Densifier after cleaning the floor. Leave the Densifier to dry - aprx. 30-60 min. depending on floor temperature and humidity. Check BECOSAN Densifier TDS for details on volume and application.
- 4 Prepare power trowel with Grit 100 (blue), apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 5 Remove the slurry/water with a cleaning-machine/wet-vacuum. The floor must be clean and completely dry before moving onto the next step.
- 6 Apply the BECOSAN Protective Sealer and leave to dry - aprx. 30-60 min. again depending on floor temperature and humidity. Check BECOSAN Protective Sealer TDS for details on volume and application.



SEMI - GLOSS - FINISH

This 4-step system creates a semi-gloss finish for floors with semi or low exposition of aggregate. After SEMI-GLOSS application the floor is stronger and more resistant to abrasions, dust-free and easy to clean with protection against staining from water, oil and grease.
CERTIFIED - ANTI-SLIP ACCORDING TO DIN 51131. Valuation: VERY SAFE.

- 1 Prepare power trowel and treat the floor with grit 50 (black) & grit 100 (blue), apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 2 Remove the slurry/water with a cleaning-machine/wet-vacuum after each of the 2 grinding steps. The floor must be clean and dry before applying the BECOSAN Densifier.
- 3 Apply the BECOSAN Densifier after cleaning the floor. Leave the Densifier to dry - aprx. 30-60 min. depending on floor temperature and humidity. Check BECOSAN Densifier TDS for details on volume and application.
- 4 Prepare power trowel and treat the floor with grit 200 (grey), apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 5 Remove the slurry/water with a cleaning-machine/wet-vacuum. The floor must be clean and completely dry before moving onto the next step.
- 6 Apply the BECOSAN Protective Sealer and leave to dry - aprx. 30-60 min. again depending on floor temperature and humidity. Check BECOSAN Protective Sealer TDS for details on volume and application.
- 7 Prepare power trowel and treat the floor with grit 400 (green) and start the polishing process in dry (NO WATER ADDED). Four passes are needed - once up and down and once across and back.



HIGH GLOSS - FINISH

This 6-step system creates a high-gloss finish for floors with semi or low exposition of aggregate. After HIGH-GLOSS application, the floor is stronger & more resistant to abrasions, dust-free and easy to clean with protection against staining from water, oil & grease, dramatically reducing maintenance-costs. The high reflectivity in the floor after application will create further savings in electricity and a significantly lower output of Co2. **CERTIFIED - ANTI-SLIP ACCORDING TO DIN 51131. Valuation: SAFE.**

- 1 Prepare power trowel and treat the floor with grit 50 (black) & grit 100 (blue) and grit 200 (grey) apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 2 Remove the slurry/water with a cleaning-machine/wet-vacuum after each of the 3 grinding steps. The floor must be clean and dry before applying the BECOSAN Densifier.
- 3 Apply the BECOSAN Densifier after cleaning the floor. Leave the Densifier to dry - aprx. 30-60 min. depending on floor temperature and humidity. Check BECOSAN Densifier TDS for details on volume and application.
- 4 Prepare power trowel and treat the floor with grit 400 (green), grit 1000 (red) apply water to the floor and start the grinding process. Four passes are needed - once up and down and once across and back. Always check the floor and the level of slurry created - If slurry is thick, add more water.
- 5 Remove the slurry/water with a cleaning-machine/wet-vacuum. The floor must be clean and completely dry before moving onto the next step.
- 6 Apply the BECOSAN Protective Sealer and leave to dry - aprx. 30-60 min. again depending on floor temperature and humidity. Check BECOSAN Protective Sealer TDS for details on volume and application.
- 7 Prepare power trowel and treat the floor with grit 3000 (yellow) and start the polishing process in dry (NO WATER ADDED). Four passes are needed - once up and down and once across and back.



SYSTEM OPTIONS

THE SYSTEM PROVIDES MULTIPLE LEVELS OF CONCRETE POLISHING WITH DIFFERENT FINISHES.



BECOSAN DEEP GRIND SC



BECOSAN DEEP GRIND HC

BECOSAN DEEP GRIND DISCS

BECOSAN Deep Grind discs are made of metal and have a long life span. They are particularly recommended for concrete surfaces that need to be grinded deeper than usual.

They are ideally used to obtain a terrazzo effect on concrete floors. Minor irregularities will be easily eliminated and raw concrete surfaces will gain ideal conditions for a later treatment with traditional polishing discs.

BECOSAN Deep Grind discs have been especially designed for both soft and hard concrete floors. They are accordingly marked with SC (soft concrete) and HC (hard concrete). We highly recommend its use in wet grinding processes.

BECOSAN DIAMOND IMPREGNATED FINISHING PAD

The BECOSAN diamond impregnated finishing pad has been developed for use on scrubber driers and power trowels.

It gives to concrete surfaces an extreme shine after a BECOSAN treatment and removes any residual traces. The pad is available in a size of 90cm and can be adapted for smaller machines. BECOSAN diamond impregnated finishing pads are very suitable for the professional maintenance of large concrete surfaces.

GENERAL USE DIRECTIONS



checklist

1. Always use water when grinding, apart from the last polishing step
2. Always make a test area.
3. Only for hard concrete
4. Running speed aprx. 2-3 mph or 4 km/h

1. The BECOSAN system can be used on any industry-standard power trowel.
2. The power trowels adequate down pressure must be minimum 60 kg. If the pressure is lower than 60 kg, more grinding/polishing passes are required.
3. Running speed aprx. 2-3 mph or 4 km/h.
4. The machines should not be used in a stationary position, while discs are rotating.
5. Always use water in steps 1-3!
6. Use enough water in order for the slurry to be easy to remove with a wet vacuum or a scrubber dryer. If the slurry gets too thick, add more water. Water is applied during the pass and work is carried out in the same water until you change the discs. After the 4th pass you should remove the slurry with a cleaning machine or for smaller areas, a wet-vacuum can be used.
7. Before application-start, always make a test area to test the concrete! Test a minimum 5 m x 5 m area on each type of concrete.
8. Prepare new discs for use by making preliminary passes to expose the diamonds; the discs will work effectively when slurry appears on floor. On power-floated concrete, it will take a few passes before the diamonds are exposed and starts to grind/polish effectively

9. All areas must be treated with all grits 4 times - 2 times up and 2 times across! The recommended passes for the discs are guidelines for an average floor condition. The right number of passes needed will depend on the actual floor condition (concrete surface hardness and roughness, as well as machine weight and running speed).

10. Always use Becosan Densifier to dust-proof and make the floor stronger. When adding the Becosan densifier, you produce a harder and completely dust-free surface, that is more than 400% stronger significantly increasing abrasion-resistance and extending the life-span of the floor.



11. Be careful of any metal pins or seams - remove these or run the discs as close as possible.

12. Always seal the floor with Becosan Protective Sealer. The Becosan Protective Sealer will protect the floor against penetrating water, oil and greasy substances, increasing the lifespan and reducing the maintenance costs overall. Furthermore, the floor will look better for longer with normal cleaning using only water. If difficult spots occur (like tire-marks etc), a mild soap (pH 7-9) is all that is required - No need for harsh/dangerous chemicals.



For maintaining treated floors, it is recommend to use diamond impregnated cleaning pads on industrial scrubber dryers and floor buffers.

LIMITATIONS: All information provided is accurate to the best of our knowledge and is to be used strictly as a guide. Material handling, system application and use is outside of our control: for this reason, we cannot guarantee the results. The system is designed for all steel trowelled concrete & dry-shake floors and will not repair damaged or soft concrete surfaces. Cracks and damages should be repaired before the application process begins.

Not recommended for use on plastic concrete, mortar, resin-based terrazzo mixes, painted and non-concrete surfaces. The BECOSAN system is unsuitable for water-damaged floors and should be used with caution on very soft concrete grades - If the concrete is below 25 mpa hardness, the Becosan Densifier Flash can be applied before the grinding process but always test a small area beforehand! The first grinding step (Grit 50) may not necessarily eliminate all contaminants such as oil, red wine and coffee stains. This depends on how deep the contaminants has penetrated the concrete. The use of Concrete cleaner can be effectively applied in order to remove deep staining - This must be applied before any grinding takes place!