



CHEMICALS

for floor grinding

The Tyrolit Group

Tyrolit is one of the world's leading manufacturers of grinding and dressing tools and is also a system provider for the construction industry.

Since 1919, our innovative tools have been making an important contribution to technological development in numerous industries. Tyrolit offers tailored grinding solutions for a varied range of applications and a comprehensive assortment of standard tools for customers all over the world.

The family-owned company based in Schwaz, Austria, combines the dynamic strengths of the Swarovski Group with over a hundred years of commercial and technological experience.



Tyrolit headquarters in Schwaz (Austria)

Facts & figures



80,000+
products



29
production locations



4,000+
employees worldwide



36
sales locations



500+
international patents

Sales companies in Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, India, Indonesia, Italy, Netherlands, Norway, Poland, Portugal, Russia, Spain, South Africa, South Korea, Sweden, Switzerland, Thailand, UAE, UK and the US. Sales partners in 65 other countries.

Chemicals for floor grinding

In addition to machines and tools for floor grinding, the TYROLIT product range also includes chemical surface treatment agents, which are used at the end of each phase of floor grinding:

1. Rough grinding

Metal-bond tools with grit size from 14 – 100

In order to smooth a new floor, the raw, dried out floor has at first to be ground with metal-bond diamond tools with a coarse grit size (14-100). In this step, also the final look of the floor is determined:

This means that the more aggregate that is to be visible in the final floor, the deeper the floor must be ground. In this phase, minor damage to the floor, such

as cracks or splintering, can occur. Once the rough grinding is completed, any possible damages are to be repaired by using the **TYROLIT Pore Filler 100**.



2. Pre-polishing

Ceramic-resin bond tools with grit size from 50 – 100

After performing repairs with the TYROLIT Pore Filler 100, the floor is machined using resin- or ceramicbond diamond tools. In this phase, the floor is given a smooth, but not yet glossy surface. Upon completion of this grinding step, no more material has to be ground off during subsequent machining. In a next step, the mechanical properties of the floor are optimised.

TYROLIT recommends the use of **TYROLIT Densifier 3** for this purpose in order to densify and harden the floor surface. Thus, the floor is ideally prepared for mechanical loads.



3. Polishing

Resin-bond tools with grit size from 100 – 800

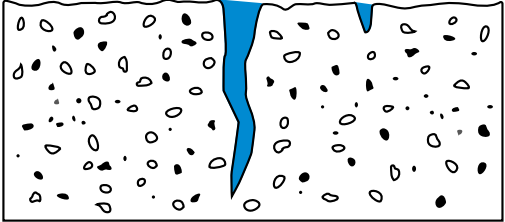
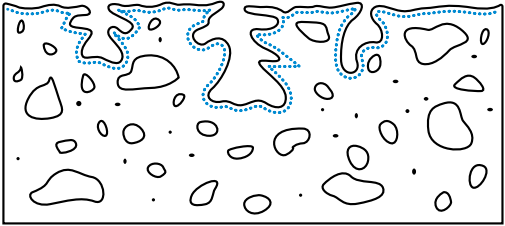
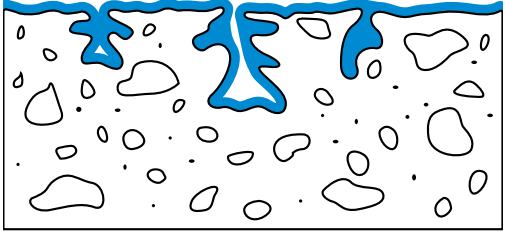
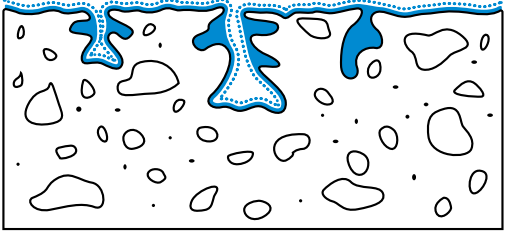
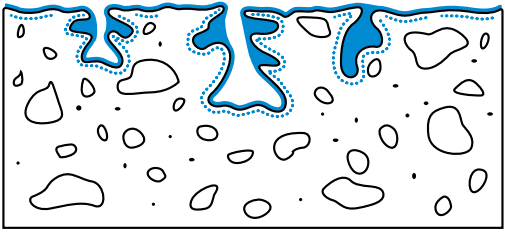
After using the TYROLIT Densifier 3, the floor is given its final gloss, for which resin-bond diamond tools with a fine grit size are used. At the end of this process, the floor is impregnated and sealed. This offers long-lasting protection against contamination and the penetration of liquids and greases.

For this purpose, TYROLIT recommends either

TYROLIT Sealer 50 OR TYROLIT Sealer 400. In the case of a simple floor preparation with only a few grinding or polishing steps, the use of **TYROLIT DUO 30** is also recommended, as it hardens and seals in just one step.



Effect of the chemicals at a glance

TYROLIT Pore Filler 100	To repair minor damage	After rough grinding	
TYROLIT Densifier 3	Hardens and densifies the floor	After pre-polishing	
TYROLIT Sealer 50	Seals the floor (film forming)	After polishing	
TYROLIT Sealer 400	Seals the floor (not film forming)	After polishing	
TYROLIT Duo 30	Combination of densification and sealing	After polishing	

Products

SYSTEM NO.: 20083856

TYROLIT Pore Filler 100

For surface treatment of mineral surfaces | 9 litres

TYROLIT Pore Filler 100 is used on ground floors and screeds to close pores, holes and small cracks of max. 4 – 5 mm. For this, Pore Filler 100 is mixed with grinding dust in order to provide the filler compound with a similar look to the floor. Cracks and holes are filled with this compound.



SYSTEM NO.: 20083477

TYROLIT Densifier 3

For densifying and hardening mineral surfaces | 20 litres

TYROLIT Densifier 3 is a concrete densifier and surface hardener. It is used after the grinding steps (and before the polishing steps), in order to give the floor its final mechanical properties. Densifier 3 consists of mixed silicates which densify the mineral surfaces and have a dust-binding effect. The resistance of the floor to mechanical loads and abrasion is improved by hardening and densification. The resistance of the floor to water absorption is also increased.



SYSTEM NO.: 20083643

TYROLIT Sealer 50

Water-based sealer for cement-bound surfaces, film-forming | 10 litres

Treatment with TYROLIT Sealer 50 reduces the penetration of liquids, greases and dirt. The sealer is applied after the final polishing of the floor. To increase the gloss, the floor can be polished again after application of Sealer 50.



Additional hazard characteristics

EEUH208 Contains a mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Safety information/Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

SYSTEM NO.: 20084214

TYROLIT Sealer 400

Solvent-based special sealer for cement-bound surfaces, not film-forming | 10 litres

Treatment with TYROLIT Sealer 400 reduces the penetration of liquids, greases and dirt. The colour of the surface is also deepened. The sealer is applied after the final polishing of the floor. This solvent-based sealer offers optimum protection against water absorption and soiling by oils and greases.



Hazard information for physical hazards

H225 Highly flammable liquid and vapour.

Hazard information for health hazards

H319 Causes serious eye irritation.

Safety information/Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety information/Response

P305 + P351 + P338

IF IN EYES: Rinse gently with water for several minutes.

Remove contact lenses if present and easy to do.

Continue rinsing.



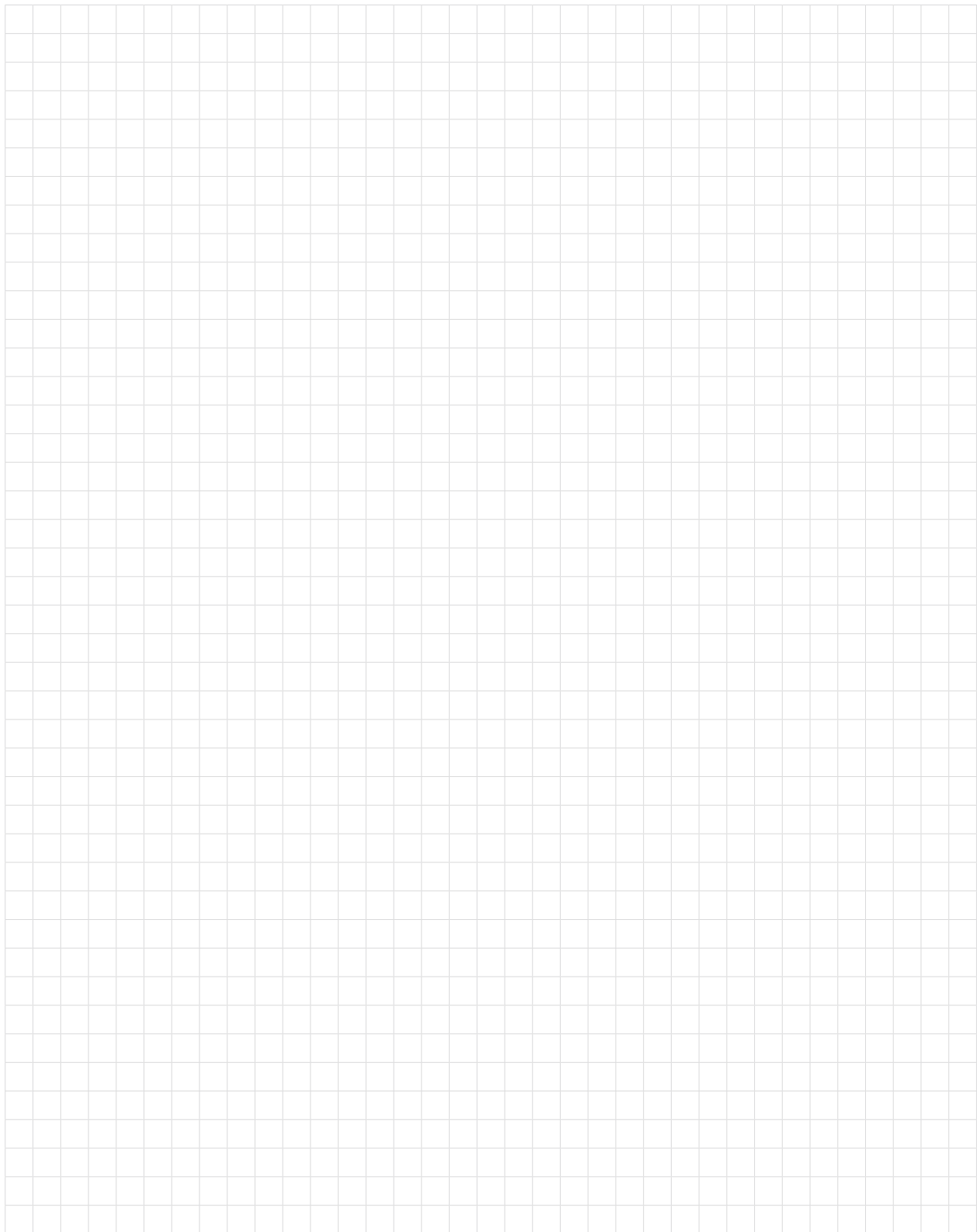
SYSTEM NO.: 20083855

TYROLIT Duo 30

The combination of densification and surface protection | 20 litres

TYROLIT Duo 30 densifies the floor. It also reduces the penetration of liquids and dirt, while the surface diffusion remains open. The result is a floor with improved abrasion resistance. The surface is also easier to clean and is less susceptible to stains and soiling.





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