

Authorized Distributor





What is UNDERBOLD-POD30®

A ground and base course stabilizer for road construction that strengthens the foundation and surface layers of roads.

- It improves soil properties,
- enhances load-bearing capacity, and
- reduces the risk of road damage.

This product ensures a more durable, stable, and longer-lasting road infrastructure



Ingredients

- A purely organic mixture of waxes and oleine, a colorless to yellowish, oily, water-insoluble liquid in many vegetable oils.
- 100% biologically eco-friendly with proven environmental sustainability
- Enthused with Nanotechnology, which has a significant role in enhancing or improving its effectiveness as an ideal ground and base course stabilizer for road construction



30% Cost Savings

- Reduction in additional construction materials, like crushed stones, gravel, or bituminous materials.
- Long logistics for materials are no longer required.
- The use of machines and workers is reduced, shortening project execution time.
- The completed surface is more durable, saving material, time, and personnel, which can reduce overall costs by up to 30% on-site

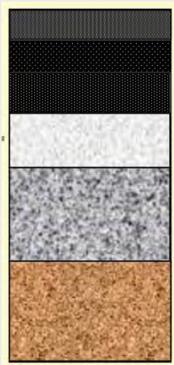


Pavement Structure in Cross-Section

Conventional Road

UNDERBOLD-POD30®

30% Cost Savings: time and material



5 cm Asphalt – wearing course 7,5 cm Asphalt – base course 7,5 cm Asphalt – base course

15 cm (Sub base) Road base Type "A" 30 cm (Sub base)

Hard Fill Type "B" Desert Fill or Dredged Sand

(Sub base)
existing or Dredged Sand



45 MN/m²

5 - 10 cm toplayer with PR-Plast

1 - 2 cm primer and split

40 cm UNDERBOLD

savings through

UNDERBOLD

time and material



Time saving

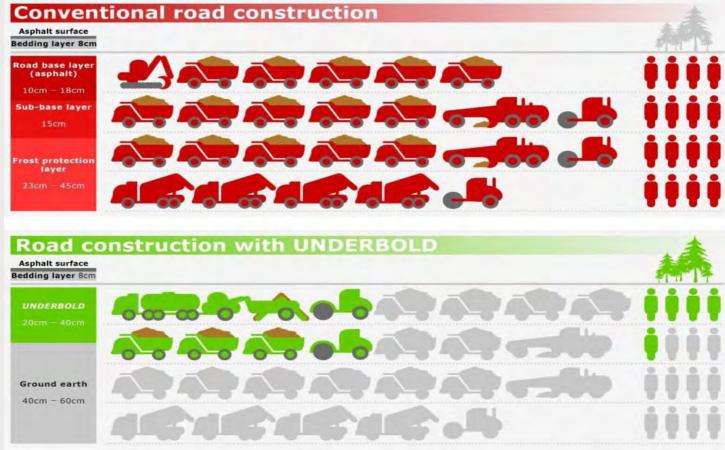
Five times faster with UNDERBOLD POD30®





Cost saving

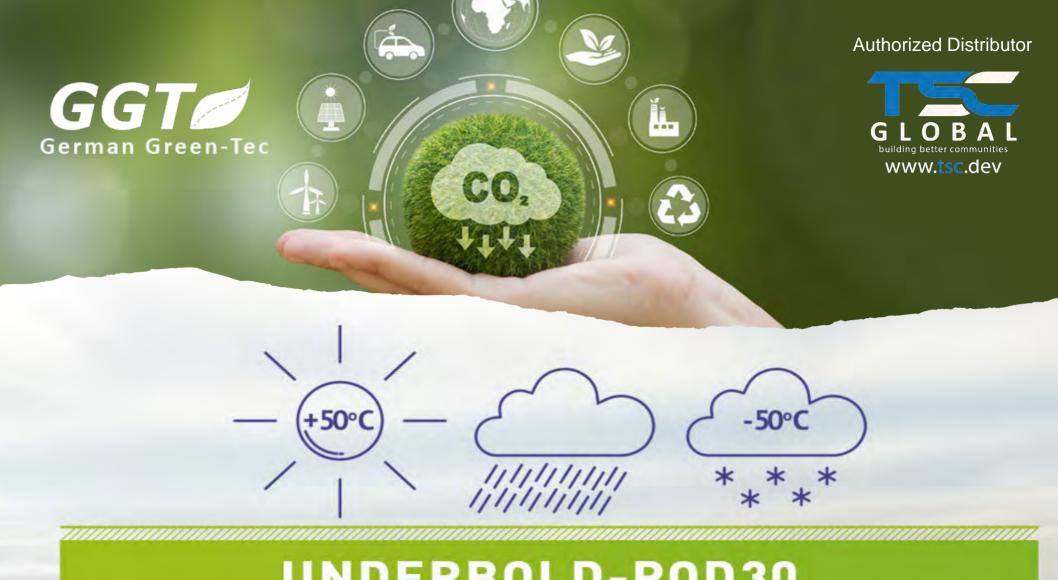
Fewer people and machinery UNDERBOLD POD30®





What are the Benefits?

- Treated soil becomes hydrophobic and agglomerated, resulting in **enormous compressive strength** by adding bonding agents (3-5% cement).
- The UNDERBOLD-POD30® mixture significantly enhances the treated soil's resilience against heavy and aggressive influences.
- Water tightness is achieved almost entirely through the fine distribution of wax particles, which prevent capillary formation and reduce crack formation. Consequently, damages due to water ingress are substantially minimized, and the lifespan of the base course is generally extended.



UNDERBOLD-POD30









Cement Spreader

16 m³ = 25 t capacity

2

Roller

16 t Operating Weight



Recycler

2.4 m working width



Tanker

10,000 Liter capacity

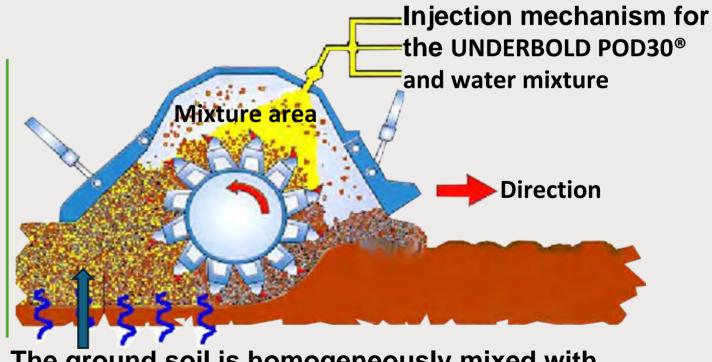


PREPARATION of the surface to be treated with a Motor Grader provides a rough and fine slope formation level.





BLENDING the UNDERBOLD POD30® mixture into the soil

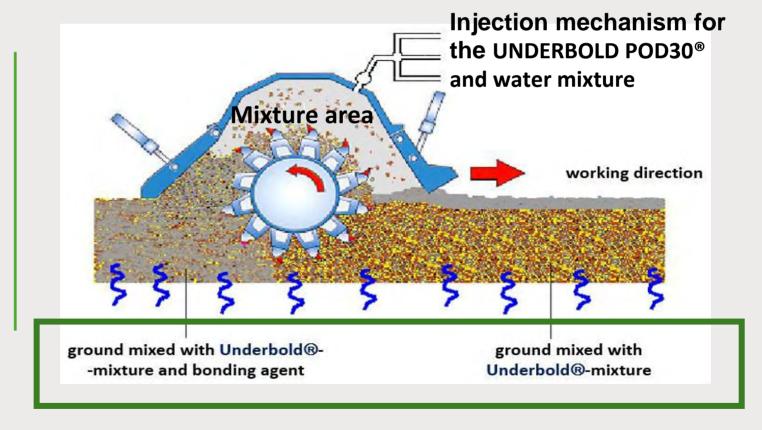


The ground soil is homogeneously mixed with the UNDERBOLD POD30®



2 (continued)

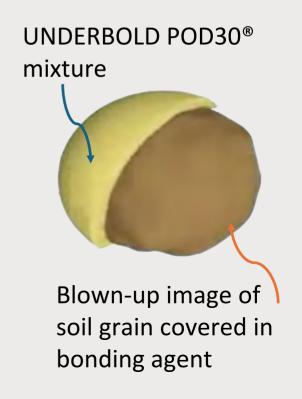
BLENDING the UNDERBOLD POD30® mixture into the soil





2 (continued)

BLENDING the UNDERBOLD POD30® homogeneously, the bonding agent settles around and in between the soil





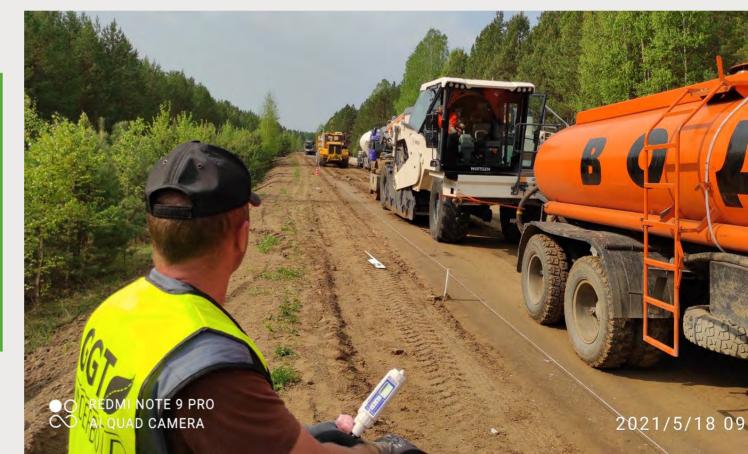
BLENDING the UNDERBOLD POD30® mixture into the soil





2 (continued)

BLENDING the UNDERBOLD POD30® in the field





2 (continued)

BLENDING machinery









CEMENT: milling binder





CEMENT: Milling





CEMENT:

Milling







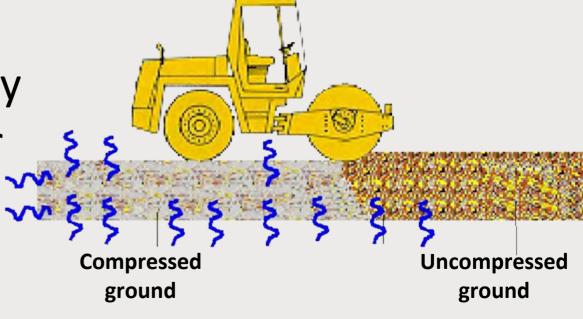
COMPRESSION





COMPRESSION:

Any remaining humidity is delivered into the air and soil (hydrophobicity) after the compression process.





PROFILING:

After the compression process, the grader constructs the profile.





PROCESSING:

Undertake compression of the treated surface optimally with a minimum roller of 16-20 tonnes.





EXAMPLES:

Mercedes-Benz parking area in Germany





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RECYCLING EXISTING ROADS

... with asphalt up to 10 cm !!





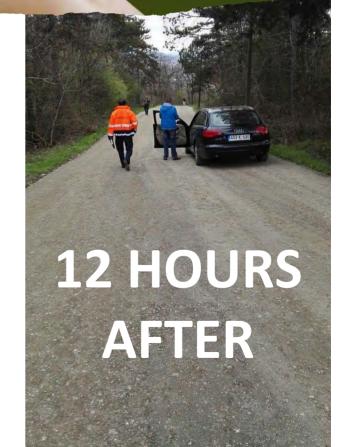
RECYCLING EXISTING ROADS





ACHIEVE AMAZING RESULTS







CLAY-SUBGRADE UNDERBOLD POD30® NOW ready for asphalt!



Maximum Water Resistance UNDERBOLD POD30® Finished roads in Serbia







Suitable for
Desert Sand
UNDERBOLD POD30®
Finished roads in
Oman











Developing countries UNDERBOLD POD30® Finished roads in Liberia









