ABATERRA

UNDERBOLD-POD30 · Application guide

Soil stabilisation in five working steps

The key steps for correct application – with the right construction machine for each step.

1. Mix in the water mixture
2. Intermediate compaction
3. Spread cement
4. Mix in cement
5. Profile and compact



Before you start

Site requirements

Before the special equipment arrives, the area should be prepared as follows:

- **Area cleared**
  free of vegetation and buildings
- **Rough formation level in place**
  with gradient already formed if required
- **Storage and staging areas**
  alongside the site, for cement and water and for filling the MFT3 and binder spreader
- **Grader on site**
  from locally available equipment
- **Roller on site**
  with an operating weight of at least 16 t

TO BE PROVIDED ON SITE



Grader

Use	**formation level, final profile**



Roller

Operating weight	**min. 16 t**

1 Mix in the water mixture



WORKING STEP

UNDERBOLD-POD30 is blended with water, dosed precisely and mixed into the existing soil with a stabiliser.

Photo left: illustrative image

REQUIRED MACHINES



Recommended: amag MFT3

Water tank	**18,000 l**
Additive tank	**1,000 l**
Operation	**blend, dose, mix in**



Alternative: recycler

e.g.	**Wirtgen, Cat, BOMAG**



+ tanker truck

Purpose	**supplies the water mixture**

2 Intermediate compaction



WORKING STEP

The mixed soil is compacted back to its original level.

Photo left: illustrative image

REQUIRED MACHINES



Roller

Operating weight	**min. 16 t**
Source	**locally available**

Note: The same roller is used again in step 5.

3 Spread cement



WORKING STEP

The binder (cement) is spread evenly over the entire area.

Photo left: illustrative image

REQUIRED MACHINES



amag binder spreader

Capacity	**17 m³**
Cement per load	**approx. 27 t**
Equipment	**dust extraction**

Important: The extraction device prevents excessive dust at the place of use.

4 Mix in cement



WORKING STEP

The cement is mixed homogeneously into the layer – using the trailed Wirtgen WS 250 stabiliser behind one of two towing vehicles.

Photo left: illustrative image

REQUIRED MACHINES



Option 1: tractor + WS 250

Tractor	**e.g. John Deere**
When	**no re-watering needed**



Option 2: amag MFT2 + WS 250

Tank	**7,500 l**
When	**in very hot weather**

Which option? Option 1 if no re-watering is required and a tractor is available on site. Option 2 if the area has to be re-watered at very high outside temperatures.

5 Profile and compact



WORKING STEP

The grader creates the final profile; the roller compacts to the specified Proctor density.

Photo left: illustrative image

REQUIRED MACHINES



Grader

Use	**final profiling**



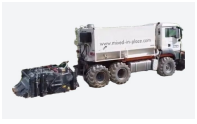
Roller

Operating weight	**min. 16 t**
Rolling sequence	**2× strong vibration**
	2–3× light vibration
	2× static

Crucial: Optimum compaction is extremely important. Only this seals the capillaries in the structure permanently.

At a glance

Machines per working step

—		Grader, roller from 16 t	Preparation
1		amag MFT3	alternatively recycler + tanker
2		Roller from 16 t	locally available
3		amag binder spreader	17 m³, with extraction
4		Wirtgen WS 250 on tractor or amag MFT2	MFT2 if re-watering
5		Grader, roller from 16 t	follow rolling sequence

ABATERRA

Questions about application, machines or dosing on your site?

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