

PRODUCT OVERVIEW

Bindtek Powder is a non-toxic, concentrated powder stabilizer that binds 1/4" or 3/8" minus aggregate to produce a durable, solid surface. Odorless, colorless when cured, and water-activated.

INSTALLATION PROCEDURE

- I SUBGRADE PREPARATION**
Compact and grade sub-grade to allow for positive drainage.
- II BASE COMPACTION**
Compact base material per state DOT requirements prior to Bindtek Powder placement.
- III BLENDING**
Mix 13–15 lbs of Bindtek Powder per ton of 1/4" or 3/8" minus aggregate. Powder must be uniformly distributed.
- IV SPREAD & GRADE**
Spread and grade pre-mixed aggregate to desired depth. Install in 2" compacted lifts for all applications.
- V WATER SATURATION**
See Water Saturation section.
- VI DRYING TIME**
Allow aggregate to dry a minimum of 6 hours (up to 48 hours depending on weather conditions).
- VII COMPACTION**
Compact to 95% relative compaction using a drum roller or heavy compactor. DO NOT use vibratory compactors — vibration will loosen the binding agent.
- VIII TRAFFIC RESTRICTION**
Do not allow traffic until completely dried (up to 72 hours depending on weather).

Do not pre-mix or install during rainy weather. Installation below 40°F is not recommended.

CHEMICAL ANALYSIS

Form	Powder
Moisture	Max 13%
Odor	Odorless
Color	White — colorless when cured
Protein	Max 5%
Solubility	Water soluble

WATER SATURATION

THE FIELD MOISTURE TEST

Grab a handful of aggregate and squeeze firmly into a ball. If it holds its shape without crumbling, moisture is correct. Too dry: ball breaks apart. Too wet: water squeezes out.

Rate	25–45 gallons of water per ton of aggregate
Penetration	Water must saturate to full depth of lift
Lifts	Install and water in 2" compacted lifts
Tip	Probe with a rod or stake to verify full-depth moisture

RECOMMENDED DEPTH BY APPLICATION

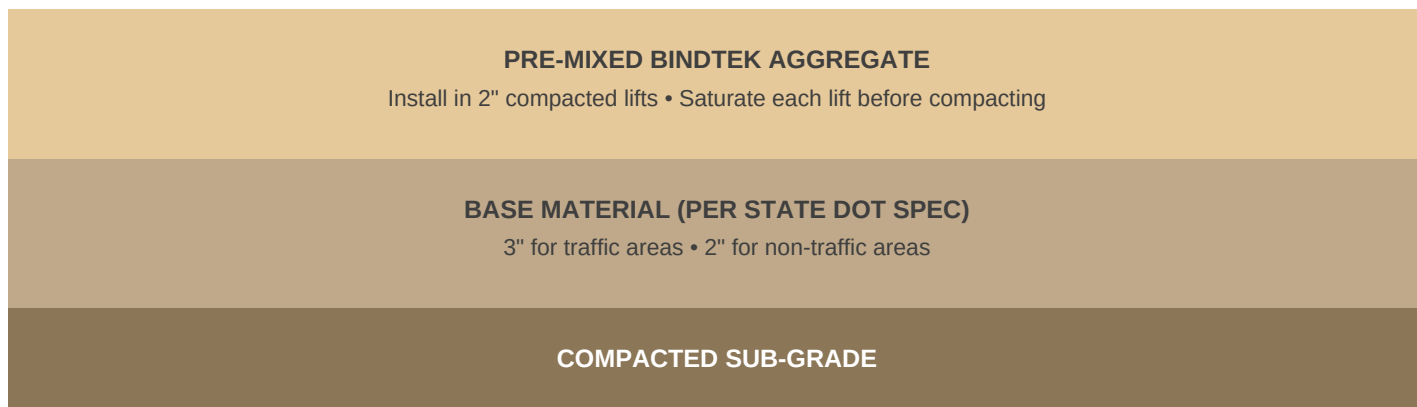
Depth	Application	Coverage
2"	Non-traffic / decorative	100 sq ft / ton
3"	Pedestrian / foot traffic	75 sq ft / ton
4"	Heavy traffic / light vehicles	50 sq ft / ton

Install in 2" lifts.

1/4" MINUS GRADATION (ASTM C 136)

Sieve	% Passing
3/8"	100
No. 4	95–100
No. 8	75–80
No. 16	55–65
No. 30	40–50
No. 50	25–35
No. 100	20–25
No. 200	5–15

CROSS-SECTION DIAGRAM — INSTALLATION LAYERS



MAINTENANCE

- 1 DEBRIS REMOVAL**
Remove paper, clippings, or organic material by blowing or hand raking regularly.
- 2 FIRST-YEAR LOOSE AGGREGATE**
Minor loose aggregate (up to 1/4") is normal. If it exceeds 1/4", redistribute over surface, water to 1" depth, and compact with a power roller of no less than 1,000 lbs.
- 3 CRACKING**
Sweep fines into cracks, water thoroughly, and hand tamp with an 8"–10" hand tamp.
- 4 SNOW REMOVAL**
Use rubber baffle on plow blade or wheels on plow to lift blade 1/4" off the surface.
- 5 IRRIGATION**
Restrict landscape irrigation adjacent to Bindtek surface until fully cured. Avoid standing water at all times.

MOISTURE CHECK — BALL TEST

Squeeze a handful into a ball. It should hold shape without crumbling. Not too dry. Not too wet.



Too dry



Correct



Too wet

REPAIR PROCEDURE

- 1 ASSESS DAMAGE**
Determine whether damage is minor (surface cracking, loose aggregate) or major (structural failure, ruts). Minor repairs: sweep fines into cracks, re-wet, hand tamp. Major repairs: follow full procedure below.
- 2 EXCAVATE**
Excavate damaged area to full depth of the Bindtek surface. Square off all sidewalls cleanly.
- 3 MOISTEN AREA**
If excavated area is dry, lightly moisten the damaged portion before applying new material.
- 4 PRE-BLEND DRY**
In a concrete mixer, pre-blend the correct amount of fresh Bindtek Powder with aggregate DRY. Use 13–15 lbs of Bindtek Powder per ton of aggregate.
- 5 ADD WATER**
Add 25–45 gallons of water per ton to the pre-blended material. Mix thoroughly to full-depth moisture. Apply ball test — aggregate should hold shape without crumbling or releasing water when squeezed.
- 6 APPLY & COMPACT**
Apply moistened mix to excavated area and grade to finish level. Compact with an 8"–10" hand tamp or 250–300 lb roller.
- 7 TRAFFIC RESTRICTION**
Keep all traffic off repaired area for 12–48 hours after repair is complete.