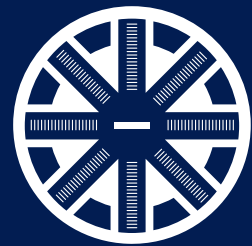


**DEVELOPED BY TBM EXPERTS  
FOR TBM EXPERTS**

Established in 1996, the first Boraid product was developed to solve logistical problems associated with ground conditioning. At that time, there were limited domestic sources of soil conditioners for Earth Pressure Balance (EPB) Tunnel Boring Machines (TBMs). Sourcing local raw materials and batching them domestically meant one less logistical nightmare of waiting for products to arrive from overseas and clear customs.

The initial products – Soilax-S, Soilax-C, and Soilax-P – were used with great success on the South Bay Ocean Outfall, North East Interceptor Sewer (NEIS) and the Los Angeles County Metropolitan Transit Authority Goldline Eastside Extension.

Encouraged by the results of their initial efforts, Boraid continued to develop products. In 2010, Boraid developed Soilax-AC for clayey soils along with techniques for automatic conditioning with the TBM. For the Skanska-Traylor-Shea JV Westside Subway Extension Phase 1 project, Boraid went back to the drawing board to develop specialized soil conditioners to successfully tunnel through the tar sands of Los Angeles.



**PROVEN SOLUTIONS FOR  
EVERY TYPE OF GROUND**

- ✓ Results in desired consistency, increasing operational efficiency
- ✓ Increases cutterhead lubrication
- ✓ Decreases wear of tools, cutterhead, and screw conveyor(s)
- ✓ Environmentally friendly due to biodegradability and reduced use of polymers
- ✓ Fire resistant and safe for people and projects

AVAILABLE THROUGH  
**STRATA WORLDWIDE**  
INFO@STRATAWORLDWIDE.COM  
1.800.691.6601




**BORAIID** Tunnel Boring Machine Excavation Specialty Enhancement Products

**THE BORAIID FAMILY  
OF PRODUCTS ARE**

- ✓ Readily available
- 📦 Easy to order, quick to deliver, cheap to ship
- 🏭 Available in bulk  
Dry products: super sack, 50 lb bags  
Wet products: truckloads, totes, drums, buckets, pails

*Boraid products have been used on complex tunneling projects across North America.*

PRODUCTS	CLAY	SILT	SAND	COARSE GRAIN	TAR
<b>Soilax-S</b>					
<b>Soilax-AC</b>					
<b>Soilax-C</b> Cellulose additive to Soilax-S for more coarse sand, where bubble strength is needed. Batch plant required.					
<b>Soilax-C+</b> More fluid than Soilax C.					
<b>Soilax-P</b> Liquid polymer additive to Soilax-S for gravelly soil.					
<b>Soilax-AT (Anti-Tar)</b>					
<b>Bert's Drillin' Juice *New*</b>					

**ADDITIONAL PRODUCTS**

<b>Soilax-DF</b> Powdered defoaming agent	<b>Soilax-DF.L</b> Liquid defoaming agent	<b>Soilax-DG</b> Liquid degreasing agent	<b>Brush Butter</b> Tail seal grease	<b>Liquid Sanitizer</b> (hand and surface)	<b>Grout Stabilizer</b>
--	--	---	---	---	-------------------------



South Bay Ocean Outfall

Northeast Interceptor Sewer

Big Walnut Augmentation

Gold Line East Side Extension

Upper Northwest Interceptor

University Link U220 Tunnels

Blue Plains Tunnel

Regional Connector Transit Project

Westside Subway Extension

Silicon Valley Clean Water Gravity Pipeline