

STALITE *PermaTill*® One Time

Superior Conditioner for Clay and Compacted Soils

Landscape plants perform best in soils that contain pore spaces ready for air and water movement. Ideal soil structure consists of 50% particulate matter, 25% available pore space for water, and 25% available pore space for air. The size and arrangement of various soil particles as well as the presence of organic matter and microorganisms are key factors in balanced soils and healthy roots. In clay soils, air and water movement is greatly reduced if not diminished because of the size, shape and number of clay particles. One application of PermaTill permanently restores gaps and pore spaces in compacted soils so that air, water, and roots move freely for better drainage, aeration, and deeper roots systems.

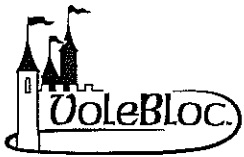
PermaTill is made from a unique slate that is heated to 2000 degrees Fahrenheit, which causes it to expand. The 5/16" expanded slate particles are porous, low in absorbency, and high in nutrient holding capacity. PermaTill is strong enough for use in structural soils; therefore it is a permanent application. Roots thrive in 100% PermaTill.

PermaTill does not replace the need for organic matter in the soil. If your soil is low in organic content, add ½ to 1" of compost with the PermaTill.

-To improve heavy soils add 2" of PermaTill on the surface, and till or work it in to a depth of 8-10".

-To improve soils around existing plants, spread a 2" layer of PermaTill around and out from the drip zone and use a spading fork to work the PermaTill in to a depth of 8-10".

-To help existing large trees that are struggling in clay use an auger to aerate or a trencher to dig root paths out from the center of the drip zone into the surrounding landscape. Fill the 18" deep holes or trenches with 100% PermaTill and top dress with compost.



VoleBloc™ is a trademark application of Stalite PermaTill used to discourage voles and protect roots from vole damage. Voles are different than moles in that voles eat roots and bulbs and they would rather not dig through anything harder than mulch or cultivated soils. The particles are coarse and therefore ideal as a physical barrier. The VoleBloc barrier adds aeration, drainage and nutrient holding capacity to the root zone therefore enhancing as well as protecting the roots. Roots thrive in the VoleBloc Barrier and it's non-toxic and safe for use around pets and wildlife. This barrier will not disappear over time.

-To protect new and existing perennial, shrub, or tree roots, dig a 3 inch wide, 10 inch deep "moat" around the plant at or near the drip zone, and fill with 100% PermaTill. Fill any vole holes with 100% PermaTill.

-To protect bulbs, surround them on all sides with 3" of PermaTill. Fill the bulb pit to the surface with 100% PermaTill for serious vole infestations. It will not cut or disfigure emerging stems, foliage, or flowers.

-To protect annual and vegetable plantings, incorporate enough PermaTill (40-50%) into the soil as deterrence. Install moats around individual plants or parallel with the planting rows.

***ALWAYS* replace the organic mulch around the plant stem(s) with 1" of PermaTill to discourage voles from entering the root zone from the top.** Fill existing vole holes with PermaTill. Remove organic debris from the area to reduce hiding spaces for voles from natural predators.

Other Stalite PermaTill applications include water gardening filtration and planting media: orchid, bonsai, and succulent media: container gardening, roof gardens and structural soils for turf and urban trees.

For more information call the PermaTill Hotline 877-737-6284, or visit: www.permatill.com