

Surface Spacing Water molecules clinging onto each other is the thick line you asked about. It's called surface tension. Before something can get wet, it needs to poke through that thick line. Inside Liquid Spacing

Sprinkle pepper onto a bowl of water until the whole surface is covered. Then just touch a bar of soap to the center of the water. Soap breaks up all that clinging-together. and the pepper will jump back as the surface tension breaks.

P.S. from Jax: If you ice-skate, you'll notice that the surface of ice is different than the inside of ice – it's slippery. New discoveries about water tell us that it's from frozen water molecules vibrating.