The paint's finish won't be any tougher. at least that's what I'm finding right now as I try to finish my cabinets.

I ended up using a 1" round over bit on the front sides and a 3/8's round over bit on the top, now the corners you see are all rounded off to begin with, it looks pretty cool too. Might be something to consider if you have access to a router.

If you really want to protect them you could check out the corner protectors for pro audio stuff on Parts express.