

TECHNICAL REFERENCE · PRINT & KEEP

Floor Conditions for Casters Guide

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Quick answer. Match caster wheel compound to the floor: hard polyurethane or cast iron on smooth concrete, soft polyurethane or rubber on coated epoxy, pneumatic or 8 to 10 inch wheels on cracked or seamed slabs, and forged steel on grated floors. Wheel diameter must be at least twice the largest floor discontinuity the caster crosses.

Floor Types and Wheel Selection

Floor Type	Recommended Compound	Recommended Diameter
Smooth concrete	Hard poly, cast iron	4-6 in
Sealed concrete	Medium poly	5-6 in
Epoxy-coated	Soft-medium poly	5-8 in
Vinyl tile	Soft rubber, TPR	4-6 in
Ceramic tile	Soft poly, soft rubber	5-6 in
Grated steel	Forged steel, phenolic	6-8 in
Asphalt	Pneumatic, hard rubber	8-12 in
Gravel	Pneumatic	10-12 in

Coated Floor Spec (Epoxy, Urethane, Sealer)

Coating Type	Best Wheel Compound	Avoid
Epoxy	Medium poly (85-92A)	Hard poly, solid rubber
Urethane	Medium poly (85-90A)	Soft rubber, steel
Sealer	Medium-hard poly (90-95A)	Cast iron, pneumatic
Anti-static	Conductive poly	Standard rubber
FDA food-grade	FDA-rated poly	Black rubber



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