

MicroCure DTO 6 and Ice

MicroCure DTO 6% is a water, ice and oil repellent coating that is transparent, smooth and slippery. The smoothness and low surface energy of this coating reduces ice adhesion on glass, metal and painted surfaces. MicroCure DTO is colorless and does not alter the color of most substrates.

Technical Data

Appearance	Liquid
Color	Clear - lightly turbid
Flammable	Yes
Density	0.9 g/ml
Refractive Index	~1.4
Soluble in Water	No
Hazardous decomposition	> 250°C
Film Hardness	>4H pencil lead hard
Dry film Toxicity	Non-toxic

Performance:

Tests	Property	100 nm film on glass compared to uncoated blank glass
Ice Pull off	Adhesion	50% easier
Ice slide-off	Icephobicity	50% faster ice slide
Water roll-off	Water slide	100% faster with <5° roll-off angle
Oil roll-off	Mineral oil repellency	200% faster with <5° roll-off angle
UV light resistance	Yellowing	No yellowing observed, as good as glass

Curing: MicroCure DTO 6 will be dry to the touch after 60 minutes at room temperature. At room temperature complete curing of MicroCure takes 12 hours. At 100°C, the time to cure is approximately 90 minutes.

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