

Hydropalat® SL 3682



Highly effective slip and anti-blocking agent for water-based paints, coatings and ink systems

Hydropalat® WE 3682 is an aqueous emulsion of an ultra-high molecular weight silicone providing excellent slip, scratch and mar resistance and anti-blocking properties. Additionally it shows a broad compatibility with different aqueous binder systems and is more sustainable compared to existing market standards as no tin-catalyst or ethylbenzene is used in the formulation.

Hydropalat® WE 3682 is recommended for Furniture and Flooring Coatings, Architectural Coatings and the Printing and Packaging Industry.

Gloss and scratch resistance measured in a coating system based on Joncryl® 8225

Ranking 0 (poor) to 5 (best)

	wo. additive	benchmark A (0.7% addition)	Hydropalat® SL 3682 (0.7% addition)
Gloss			
20°/60°	5.5/31.3	4.6/27.5	4.7/27.7
Finger nail scratch resistance			
after 15 min 50° + 30 min RT	0	3	3
after a day	0	4	4-5
after a week	1	4	4-5

Pendulum hardness and blocking resistance measured in a coating system based on Acronal® LR 9014

Ranking 1 (poor) to 5 (best)

	wo. additive	benchmark A (0.3% addition)	Hydropalat® SL 3682 (0.3% addition)
Pendulum hardness	n.a.	33.6	35.0
Appearance	matt, no craters	matt, no craters	matt, no craters
Blocking - 24h 50°C + 10kg			
Adhesion	2,5	4	4
Tear Off	2,5	4,5	4,5

Hydropalat® SL 3682: Characteristic Values

Property	Value
Solid content	~ 65 %
Density (DIN 51757)	~ 0.98 g/cm³
Viscosity	~ 3000 mPa.s

Performance Highlights

- Excellent slip and mar resistance
- Excellent anti-blocking properties
- Broad compatibility with different binder systems
- Suitable for both glossy and matt pigmented systems as well as for clear coats (wood coatings)

Sustainability Highlights

- More sustainable vs existing market standards:
 - Tin-free
 - Free of Ethylbenzene



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