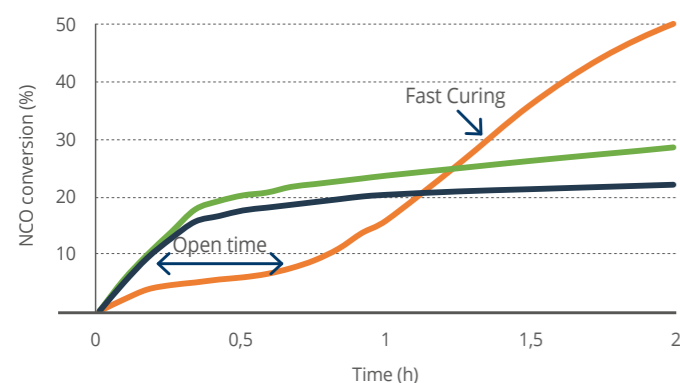


SETALUX® FC (Fast Cure) acrylic polyols offer a unique reactivity profile when combined with suitable isocyanates. After mixing a SETALUX FC acrylic polyol with isocyanate the reaction rate is initially very low. This not only results in a very long pot life, but also in a long open time after paint application. This open time allows for good flow and leveling, leading to improved appearance. After this induction period the reaction

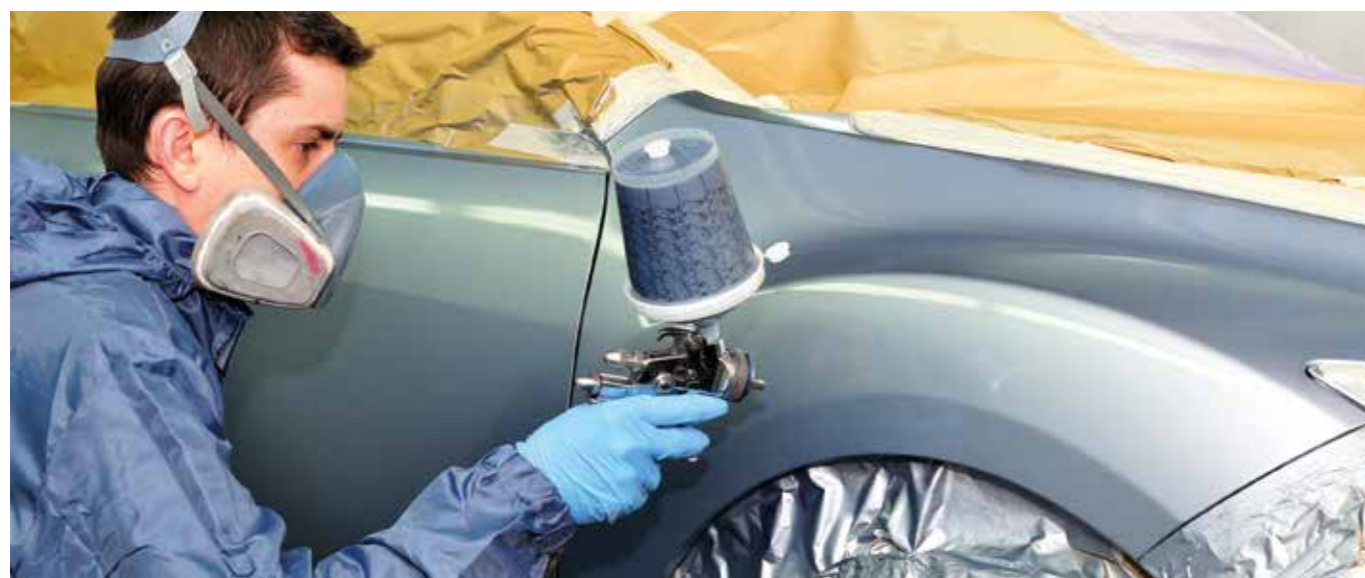
rate increases rapidly. In this stage the coating not only dries quickly but also develops hardness and chemical resistance extremely fast. The delayed high reactivity allows the paint formulator to combine very fast drying and fast hardness build-up with excellent appearance, without having to make any sacrifices in pot life or other properties.



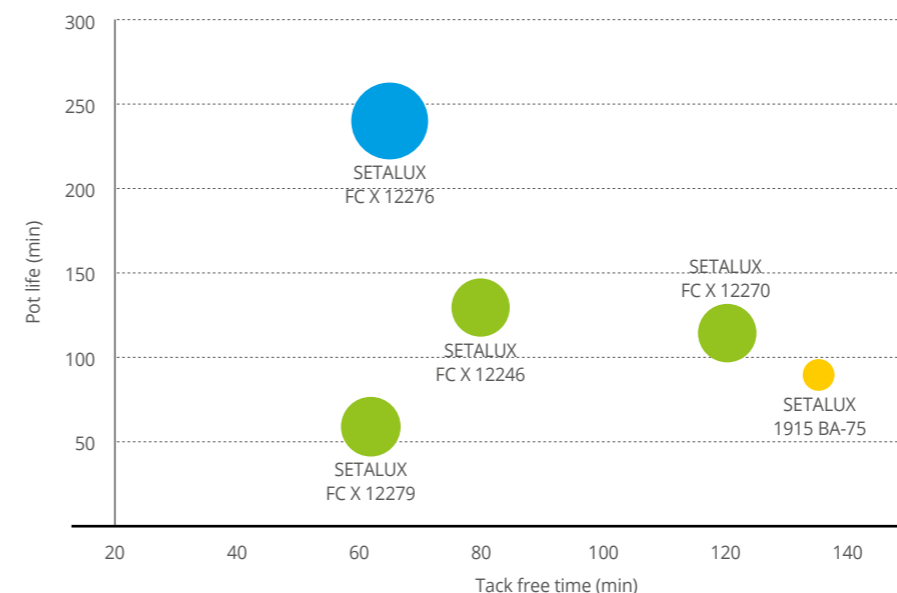
Comparison of reactivity profile of a standard MS acrylic polyol with SETALUX 1226 SS-60 (Fastest allnex standard MS acrylic polyol) and SETALUX FC X 12276

SETALUX FC grades – Main Characteristics

	NV (%)	Solvents	Viscosity (23°C, Pa.s)	OH (%) on solids	Color max value Hazen	Density g/ml	Technical features
Medium Solids							
SETALUX FC X 12276	67	BuAc	3.8	3.6	< 50	1.02	Fastest hardness build-up, longest pot life
High Solids (VOC ≤ 420 g/L)							
SETALUX FC X 12246	75	BuAc	6.1	4.1	< 50	1.05	Best pot life/drying balance
SETALUX FC X 12270	75	BuAc	6.2	3.6	< 50	1.04	Economy grade. Fast drying, long pot life
SETALUX FC X 12279	75	BuAc	5.4	4.1	< 50	1.05	Optimized for drying at room temperature, Fastest drying



Comparison of SETALUX FC-grades in a clearcoat formulation



Pot life vs. Tack free time: Dot color: Blue: Medium Solid; Green: High Solid; Yellow: Reference, SETALUX 1915 BA-75, fastest High Solid standard (non-FC) resin. Dot size corresponds to early hardness: SETALUX 1915 BA-75 has the lowest early hardness.

	SETALUX FC X 12276	SETALUX FC X 12279	SETALUX FC X 12246	SETALUX FC X 12270	SETALUX 1915 BA-75
Tack free time (h:mm) @ RT	1:10	1:00	1:20	2:00	2:30
Working time (+ 4 s Din Cup 4) (h:mm)	2:55	0:45	1:20	1:20	0:30
Pot life (h:mm)	4:00	1:10	2:10	1:55	1:30
Pot life – drying balance	3.4	1.2	1.6	1	0.6
Persoz / König hardness (s)					
- after 1 day 23 °C	243 / 124	169 / 107	210 / 97	185 / 83	147 / 56
- after 30 min 60 °C + 1 h 23°C	251 / 130	224 / 102	216 / 98	214 / 103	106 / 42
- after 7 days 23 °C	269 / 144	242 / 114	246 / 125	235 / 118	206 / 94
Xylene resistance					
- after 1 day 23 °C	++	+	++	+	+/-
- after 7 days 23 °C	++	++	++	++	++
Long wave	6.0	4.2	3.8	2.7	6.0
Short wave	4.3	5.9	4.2	1.1	1.6
Gloss at 20° geometry (GU)	90	89	88	90	89
DOI	91	96	96	96	96
Adhesion on Basecoat	++	++	++	++	++

The new SETALUX FC product range offers:

- Fast drying
- Fast hardness build-up
- Long pot life and long working time
- Early polishability
- Application robustness
- Excellent appearance
- Shorter cycle time: Increased body shop profitability

The SETALUX FC product range is now available for customers in Europe, Middle East and Africa. In the near future FC products meeting the specific requirements of the Asian and American markets will be available.