

Guideline for selecting surface coatings

Properties	DU finish	Hard PVC foil	SP + PET foil	Polyester finish	HDP finish	ROMA resist	ROMAplus
Coating thickness (µm)	15	150	55	25	25	35	50
Glossy	15...25	5...15	60...80	10...80	20...80	40	20...40
Corrosivity category in acc. with DIN 55 634 : 2010-04 Att.A	C2/M	C2/H C3/H C4/H C5-I/M C5-M/H		C2/H C3/H C4/L	C2/H C3/H C4/L	C2/H C3/H C4/L	C2/H C3/H C4/H C5-I/M C5-M/M
Surface hardness	+	+	++	+++	+++	+++	+++
Temperature resistance (°C)	80	60	80	80	80	80	80
Formability/bending	+	+++	++	++	++	++	+++
Formability/profiling	+	+++	++	+++	+++	+++	+++
Abrasion resistance	+	+++	++	+	+	+	++
Weather resistance, UV stability	-	-	-	+	++	+	++
Chemical resistance inorganic/organic*	+/+	+++/>+++	+++/>+++	++/>++	++/>++	++/>++	++/>++
Physiologically harmless	+	+++	+++	++	++	++	++

Application areas	DU finish	Hard PVC foil	SP + PE foil	Polyester finish	HDP finish	ROMA resist	ROMAplus
Rural atmosphere	-	-	-	++	++	++	+++
Urban and industrial atmosphere	-	-	-	++	++	++	+++
Aggressive industry atmosphere*	-	-	-	+	+	+	++
Marine atmosphere*	1 – 10 km	-	-	-	-	-	++
	to 1 km	-	-	-	-	-	+
Normal room climate t < 25 °C, rel. humidity < 80 %	+	+++	++	++	++	++	+++
Rooms with t < 25 °C* Rel. humidity > 80 %	-	++	++	+	+	+	++
Rooms with 25 °C < t < 50 °C, Rel. humidity > 80 %*	-	+	+	-	-	-	+
Rooms without heating, with intermittent condensation	-	++	++	+	+	+	+
Cold-stores to -30 °C	-	++	++	+	+	+	++

Rating:

+++ Highly suitable ++ Very suitable + Suitable - Not recommended

* Inquiry necessary so exact application area can be defined.