

7656 Plastic-Metal Premium / 7658 (Concentrate) Coating for Plastics, Metal, Painted Surfaces, Stainless Steel & Metal

Key Features

Application Temperature	Coverage Rate per litre	Durability of the coating	Shelf life of the liquid	Storage Temperature	Curing time
-25°C - +50°C, also in sunlight	150-200m ²	outside: 1-3 years, under German weather conditions, inside: 5-10 years	2 years	-10°C - +40°C	12 hours at 20°C (surface usable after one hour)

Properties

- clear, colourless liquid, virtually undetectable, surfaces look and feel the same after application but they may look slightly brighter
- invisible to the human eye (coating thickness: 100-150 nm)
- easy to apply and re apply („do-it-yourself“)
- strong hydrophobicity and oleophobicity
- strong non-stick properties
- permanent, the permanent chemical bond with the substrate enables excellent abrasion resistance
- resistant to almost all standard household and industrial cleaners (with the exception of concentrated lye)
- breathable
- Resistant against temperature (frost and extreme heat or UV exposure), to salt, hard water minerals, seawater, salty air and alkali
- The UV-stability enable functionality for a number of years, approximately the lifetime of the coated surface (not damaged by sunlight)
- anti-soiling, water and dirt-repellent
- helps to prevent water marks, dirt, algae and bird fouling from adhering to plastics
- no scraping, scrubbing or harsh chemical cleaners needed as soiling agents do not bond to the coated surface
- easy to clean effect, treated surfaces remain clean for prolonged periods, this reduces cleaning time and the costs for cleaning and care
- drastically reduces cleaning frequencies, saving energy, time and cost
- no need to be re-applied after cleaning the surface.
- reduces the growth of micro-organisms and bacteria
- enhanced hygiene due to biostatic characteristics
- food-safe (inert)
- will considerably reduce surface friction
- exceptionally long durability (up 3-10 years in most conditions)
- exceptionally long shelf life (over 5 years)

Some of the testing associated with this coating:	
Test according to	Description
ISO 11507	Artificial weathering with fluorescent UV lamps + water (method A)
DIN 55620-1+2	Determination the contact angle
DIN EN ISO 11998:2008	Determination of the wet-scrub resistance and cleanability of coatings
BS-EN 1186:2002	Migration Test on coated plastic surface
CCM lab	Contact angle

7656 Plastic-Metal Premium is ideal in environments such as

- Plastic surfaces in sanitary areas (e.g. plexi®-glass shower cabinet)
- Automotive paint (protection for up to 2 years)
- Painted aluminium rims
- Stainless steel surfaces

7656-1	1.000ml bottle
7656-200	200 litres barrel
7656-1000	1.000 litres IBC container

Customs code: 3824 9092, DG

Concentrate for 20 litres:	
Component	7658
A	400g
B	400g

Purchased from local supplier:	
Ethanol (EtOH) 99% or higher	19,3 litres
Hydrochloric acid 37% (HCl) CAS No.: 7647-01-0	40g

1018 TiO² Glass DIY

Photo-catalytic, strongly hydrophilic coating for Glass (e.g. Solar Panels & Window Glass) & Plastics

Key Features:

- Application Temperature: 10-40°C
- Coverage Rate per litre: 50-100 m²
- Active life of coating: Appr. 12 months for the first application, appr. 18 months for the second
- Shelf life of the liquid: 12-24 months
- Storage Temperature: +5 - +40°C
- Curing time: 8-24 hours (8h at 40°C, 24h at 10°C)

Customs code: 3209 9000, no DG

Properties

- Water-based
- Hydrophilic
- Shelf life: Appr. 12 months for the first application, appr. 18 months for the second
- Withstands up to 150°C (peak: 200°C)
- Room temperature curing
- Easy-to-apply

1018-1	1.000ml
1018-5	5.000ml