



Technical data sheet

PROTECTION MADE EASY

Durotop AC 55-85

Description and destination of the product

Durotop AC 55 and **Durotop AC 85** are quick drying top coats with rust preventive properties (contain an active anticorrosion pigment).

Durotop AC 55 and **Durotop AC 85** are suitable for brush and roller applications next to different spraying techniques, taking into account the quick drying character.

Durotop AC 55 and **Durotop AC 85** are good top coats for the protection of metals and can whether or not be used in combination with an appropriate primer and this in function of the kind of surface, the circumstances, the preparation and the expected lifetime.

Durotop AC 55 and **Durotop AC 85** have a good weather resistance, gloss retention (thanks to the presence of a UV-filter), hardness and yellowing resistance.

Type of binder

With urethane modified alkyd resins

Type of pigment

Zinc free anticorrosion pigment, free of lead and chromate, outdoor resistant pigments and fillers

Colour

To be coloured with industrial tinting machine of Libert Paints

Gloss

Durotop AC 55: satin (55 (±10)% Gardner 60°)

Durotop AC 85: glossy

Technical data

- **Density:** 1,10 ± 0.1Kg/L
- **Solids content:** 48 (± 3) % in volume
59 (± 3) % in weight
(Depending of the colour)
- **Mixing ratio:**

Mixing errors result in deviating properties and differences in gloss. Therefore we advise to mix the complete contents of base paint and hardener.

- **Potlife:** Not applicable.
- **VOC:**
 - < 450g/L (non diluted)
 - < 500g/L (12% diluted with **Thinner 20**)
 - Category A/i
 - Norm 2010
- Indicative drying times (R.H. 75%) for 60 micron layer thickness:

	Dustdry	Tackfree	Dry
10°C	1 hour	8 hours	16 hours
20°C	30 minutes	2 hours	5 hours
30°C	20 minutes	1.5 hour	4 hours

- **Theoretical yield:**

The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the losses by airless application.

Surface preparation

- **old alkyd paints and varnishes:** first test on adhesion and roughen up before repainting
- The surface must be completely dry (maximum 5% moisture content)

The surface to be painted must be free of grease, oil, water, dust or other impurities that can hamper a good adhesion. This cleaning can be done in different ways, depending on the condition and the possibilities. **Eco Degreaser** can be recommend as a good bio-degradable product (use: see technical data sheet).

On new, untreated surfaces where a long protection is expected, an appropriate primer is recommended (**Primavit**, **Zincomine** or **Durozinc**). On galvanization and aluminium a barrier and adhesion coat such as **Durozinc HS Allprimer** necessary.

To know the appropriate preparation for a specific object, always consult your Libert Paints contact of dealer.

Use

- **apply:** with roller, brush or spray gun
- **diluting table:**

	Dilution: Thinner 20
Roller	5 to 10%
Brush	5 to 10%
Spray gun	0 to 5%

It is best to clean the material with **Thinner 20** also.

Spraying data

Tests were performed with Wagner Puma 28/40, Graco Mercur range and Wagner Evomotion 20/30.

	Airless	Airmix
Paint spraying pressure	100 to 150 bar	50 to 80 bar
Min. pressure proportion	30/1	20/1
Flow rate	30cc/double turn	30cc/double turn
Spraying tip	0,009" to 0,013"	0,009" to 0,013"
Spraying angle	40 to 50°	40 to 50°
Pistol filter	150 mesh (0,009") 100 mesh (0,013")	150 mesh (0,009") 100 mesh (0,013")
Spraying pressure on pistol	/	1 to 2 bar

The pump choice is determined by various specific factors, amongst others (the size and the form of) the substrate, number of spraying hours per day and the spraying environment. Therefore it is always recommended to consult the specialists at Wagner (www.wsb-wagner.eu) or Graco (www.bca.eu).

For the correct choice of material, roller, brush or pistol, please consult the specialized suppliers!
Some system preferences:

- renovation of painted surfaces:
 - 1 to 2 layers **Durotop AC 55** or **85**
- To paint new metal surfaces:
 - 50 micron **Primavit/Zincomine/Durozinc**
 - 1 to 2 layers **Durotop AC 55** or **85**
- To paint new galvanized surfaces or aluminium:
 - 50 micron **Durozinc**
 - 1 to 2 layers **Durotop AC 55** or **85**

Durotop AC 55 or **85** can always be finished with a second layer **Durotop AC 55** or **85** so that a nice and smooth covering, coloured finish is obtained.

The minimum waiting time between the application of two coats of **Durotop AC 55** or **85** is 24 hours. If the waiting time between two coats exceeds 48 hours, then intermediate sanding (fine grain) is recommended to obtain good adhesion (60 micron – 20°C).

- **Recommended layer thickness:**

	Dry	Wet	Theoretical yield
Minimum:	30 micron	70 micron	± 15m ²
Maximum:	80 micron	170 micron	± 6m ²
Optimal:	60 micron	130 micron	± 8m ²

The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the loss by spray application.

Application conditions

The relative humidity must be 85 % maximum while the temperature of the surface, during application, must be minimum 9°C and must be 3°C higher than dew point. The temperature and relative humidity must always be measured in the direct proximity of the object to be painted.

Storage stability

Minimum 2 years in the original, unopened packing, stored in a dry environment at temperatures between -20°C and +40°C.

Keep the paint cans well closed to avoid dehydration and skin formation.

Safety measure

For detailed information about safety measures, personal protection and transport data of this product, we refer to the safety data sheet.

The last update of our technical data sheets is always available at our website: www.libertpaints.be

Disclaimer

The information given in this technical data sheet is only a general product description, based on our experiences and tests and therefore does not represent a specific practical case. Consequently Libert Paints doesn't guarantee the functionality or result and takes no responsibility in this respect.

We advise our clients to test the applicability of the product to the nature and the state of the surfaces and to carry out the necessary representative tests in case of doubt. Please contact our R&D department as the occasion arises.

Attention: our clients should verify whether the present technical data sheet hasn't been replaced by a more recent version.