

# VR208 – IGP-DURA®than 8909B Weather resistant industrial quality

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System 8909B was developed for use as a topcoat powder coating for permanent graffiti prevention on metal surfaces.

#### **Processing**

Initial coating with a high-voltage setting of 60 to 70 kV. When overcoating with 8909B with a setting of 50 to 60 kV and a current limiter <10  $\mu$ m.

Spray-back effects can be avoided by using ion-leakage rings (low-ion charge). We recommend flat spray nozzles. The spraying distances can be set to 250 mm. To optimise the coating thickness distribution, the speed of the lifting devices must be adapted to the transport speed when coating in long-stroke operation (coordinated sinusoidal curve of the guns). Coating in short-stroke operation requires the lifting height to be adapted to the intermediate distance between the guns (coordinated gun turning points). Any necessary manual application in semi-automatic mode should be carried out as a pre-coating.

We recommend working with Film thicknesses of 50  $\mu$ m to 70  $\mu$ m. With <u>IGP-DURA®than 8909B</u>, fine bubbles may appear in the powder-coated surface with Film thicknesses of > 90  $\mu$ m after curing.

Processing with tribo guns is not recommended.

#### Reclaiming

Continuous dosing of fresh powder is recommended for Processing <u>IGP-DURA®than 8909B</u> in reclaiming mode.

Maintenance and Cleaning of all system components (guns, hoses, cyclone...) must be carried out with the utmost care.

#### **Earthing**

When processing IGP-DURA®than 8909B, especially on substrates that have already been coated, ensure that the substrate is sufficiently earthing.

#### Curing in the oven

Curing requires exact temperature control.

If the temperature falls below the required object temperature, cracking may occur in the powder-coated surface, while exceeding this temperature usually results in yellowing and foaming of the powder coating layer.

Based on these conditions, we recommend creating a temperature profile of the curing oven with an oven measuring device under production conditions before starting production. Curing of the coated objects should always be carried out on the basis of the time combination of retention time at object temperature determined with the oven measuring device, taking into account the recommended curing conditions. The recommended temperature and time combinations according to the technical data sheet must not be exceeded under any circumstances.



# Ventilation and smoke development

During the curing process, 8909B releases decomposition products in the form of caprolactam. Decomposition products generate a lot of smoke, which must be removed from the inside of the curing oven by adequate ventilation. If the curing oven is not equipped with sufficient ventilation, it is essential to ensure adequate ventilation of the room and oven. The list of information on special risks (H-phrases H302/H312/H332/H315/H319/H317/H335/H336) must be observed. Deposited decomposition products in the curing oven, especially on the oven walls and in the venting area, must be removed in due course, depending on their thickness.

### **Paint stripping**

<u>IGP-DURA®than 8909B</u> is difficult to paint strip chemically. Collector hangers used for coating can be freed from powder coating using a flame process.

## **Applicable documents**

• Technical data sheet <u>IGP-DURA®than 8909B</u>



# Further recommendations for Processing IGP-DURA®than 8909B

Equipment and processing Setting (parameters) according to categorisation parameters Uni (appliances / accessories) High voltage setting kV 50-70 Current limiter µA < 20 < 10 (gun) Total air Nm3/h 12mm = 5 Nm3/h Conveying + dosing air 11mm = 4 Nm3/h (internalø powder hose) 10mm = 3 Nm3/h Powder hose with integrated Earthing the injector earthing (injector - gun) Nozzle (gun) with flat spray Suitable nozzles Nozzle (gun) with buffle plate suitable Processing with ion-leakage Possible with and without ring (gun) Spraying distance coating ≥ 250mm (gun - workpiece) Coating with tribo guns Not suitable Powder feed from fluidised Well suited, fluidising air as required container Powder delivery from the Not recommended carton Screening with US screen Recommended with mesh size >140µm (sieving machine) Maximum proportion of reclaimed powder in ≤ 90% 3 | 4

recirculation mode

**IGP Powder Coatings** 

