

## How To Use: TECNADIS METALCOAT ENHANCER

### Protective coating with hydrophobic and oleophobic properties

#### PRODUCT DESCRIPTION

##### Component 1

##### Tecnadis METALCOAT ENHANCER



Tecnadis METALCOAT ENHANCER is provided as a mono-component liquid. It is used to improve non-stick performances of the treatments METALCOAT BASE and METALCOAT PLUS.

#### HOW TO USE IT

##### STEP 1. PREPARING THE SURFACE

The surface treated with TECNADIS METALCOAT BASE or PLUS must be **clean and dry** before the application. Avoid the presence of dust or any other solid particles on the surface by cleaning it with a cloth or air.

##### STEP 2. PRODUCT APPLICATION

It is advisable to apply the product Tecnadis METALCOAT ENHANCER by a spray-gun, which may vary from a simple air-less electric gun to more sophisticated air-forced guns like "Trans-Tech" ones, since the application of the coating is very indulgent.

##### Advices to apply Tecnadis METALCOAT ENHANCER:

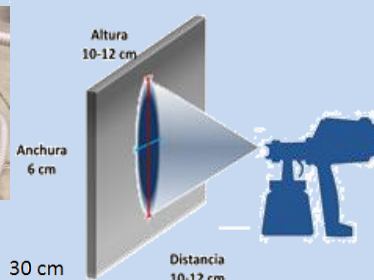
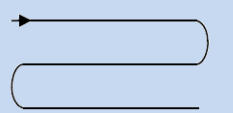
- **The aspect of the coating should not be altered** by the deposition of this top layer. In this sense, a very fast spraying will be preferred. Although it seems that no product has been applied, the enhancer layer is already deposited.
- Always **put the spraying gun perpendicularly to the surface and keep the same distance** during the whole application.
- Avoid excess of product. If the product drains or forms drops on the surface, use the air of the spray gun or a cloth to spread it uniformly along the surface before it dries.
- Once deposited on the surface, let the solvent dry during 2-5 minutes.

To calibrate the spraying gun, it is essential **adjust the size and shape of the spraying pattern and the product consumption** (ml/min) to the values below, depending on the type of gun used:

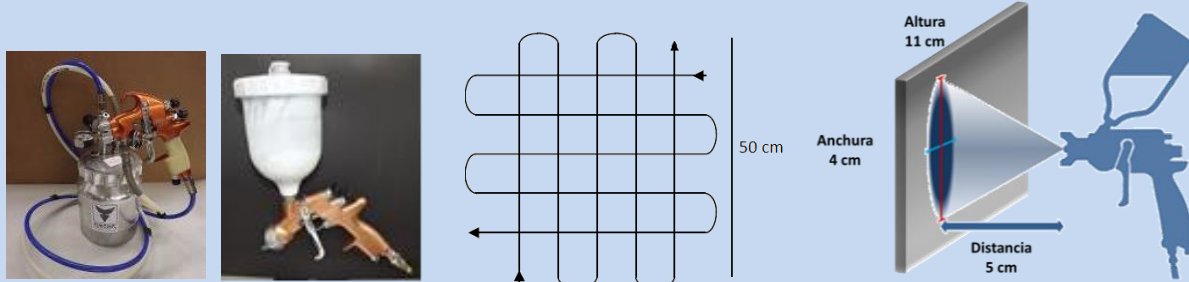
##### 1) AIR-LESS ELECTRIC SPRAYING GUN:

Spray the product Tecnadis METALCOAT ENHANCER onto the surface treated with Tecnadis METALCOAT BASE or PLUS, depositing it as far as possible as a **single and homogeneous layer**, avoiding possible excess and product's drip

**Approximate yield:** 60 – 70 ml/m<sup>2</sup>



## 2) AIR-FORCED SPRAYING GUN:



In the case of using “TransTech”-type air-forced spraying guns, it is recommended to apply **two layers** of the product, being **perpendicular among them** (see the figure) to perfectly cover all the surface.

**Approximate yield:** 90 ml/m<sup>2</sup>

## STEP 3. PRODUCT CURING

The coating Tecnadis METALCOAT ENHANCER need a thermal curing at 200°C to be fixed to the previous layer of Tecnadis METALCOAT BASE or PLUS. Several thermal devices can be used to this aim depending on the piece size, shape and accessibility. **Ovens** are advisable for small pieces and industrial serial productions, but thermal portable devices such as **thermal guns or cannons** are preferred for in-situ applications in already-existing lines. The recommended duration for this process is around **15-30 minutes** based on the size of the piece to be treated and the thermal device used.

As indicative, in the case of curing the treated pieces into an oven, they will need a thermal process of around 30 minutes at 200°C. In the case of using a thermal gun or cannon, the parameters of the device will have to be adjusted to reach 200°C on the surface of the piece(s) during the corresponding time. Namely, in the specific case of using a LEISTER, it has been estimated that it will be required a curing process of 15 minutes/m<sup>2</sup> at power 4. Then, to ensure a good attachment to the surface, specific thermal input of 3 to 5 seconds per area of 5 x 5 cm approximately can be performed at that power.



## HANDLING PRECAUTIONS

Application of the product should be carried out in a properly ventilated place. It contains a volatile solvent (ethanol).

Product safety information required for safe use is not included in this document. Before handling, read material safety data sheets and container labels for safe use, and for physical and health hazard information. Material safety data sheet (MSDS) is available from Tecnan S. L.