

Product Information

LC12 (Leer) is a coating that is applied on natural leather and artificial leather surfaces which gives hydro/oleo phobic effects on surface efficiency up to 12 months. It is also highly water and dirt repellent which keeps the surfaces away from water, dirt and other liquids. The surface becomes very easy to clean after this implementation. Product is a premium leather care product based on barrier nano protection.

Application Surfaces

- Natural leather
- Artificial leather

Not advised to be applied product on surfaces like:

- Thermosets & Thermoplastics
- Stone
- Wood
- Glass & Ceramic
- Textiles/Fabrics

Benefits & Key Features

- Water and oil repellency.
- Chemical resistance.
- UV protection.
- Easy to clean.
- Stain resistant.

Instructions

Surfaces should be dry and free of any dust, oil, grease and other contamination.

Application should be made in a shaded and well-ventilated area.

Manual Application

*It is recommended to try on a small area before covering the entire surface.

- Place a suede cloth onto the applicator block's sponge surface.
- Open the lid and pour the necessary amount of product onto the suede cloth.
- Spread the product homogeneously on the surface with linear movements.

High Pressure Spraying

* It is recommended to apply it to the final product after the trials are made and the optimum parameters are found.

- HVLP spray guns with 0.8 mm nozzle diameter should be preferred
- The distance between the surface and nozzle can be chosen between 35-50 cm depending on the other parameters
- Spraying pressure can be chosen between 4.5-5.5 bar depending on the other parameters
- The product should be sprayed onto the surface in the essential amount with a fine atomization

Curing

Room Temperature Curing

Dry to touch: 2 h at 23°C - 50% RH

Fully curing: 24 h at 23°C - 50% RH

Accelerated Curing

It is possible to speed up the curing process by selecting the appropriate time and temperature between 70°C - 150°C.

Application Tips

Ensure that the temperature and relative humidity (RH) of the application space are as close as possible to the given values to achieve the highest product performance.

If the ambient temperature or relative humidity value is higher than the suggested intervals/values, the product may cure faster than expected.

Avoid direct sunlight during the application and only work on cool surfaces.

Surface should be dry and cleaned properly to remove any residual contamination.

Shake the product gently before use.

Be careful of over application while working on sensitive leather and freshly painted leather to prevent deformation.

If product is contacted with incompatible materials, wipe off immediately with a dry and clean microfiber cloth.

Technical Data Sheet

Leer coating (LC12)

Manual Application

Before using the product, wear protective nitrile gloves.

Do not forget to keep the lid closed during the application.

High Pressure Spraying

The product should be sprayed with a fine atomization. The surface should look homogeneous after the application.

If you had a wet looking surface after the application and because of that saw dots/marks/increased gloss on the surface, you can;

- Decrease the flow rate
- Increase the spraying distance
- Increase the spraying pressure
- Expand the pattern
- Increase the line speed

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Increase the flow rate
- Decrease the spraying distance
- Decrease the spraying pressure
- Narrow down the pattern
- Decrease the line speed

Curing

When the coated surface is dry to touch, it can be handled/packed. Fully curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, keep the coated surface away from water/contamination for 24 hours and don't perform harsh tests on it.

Durability

Up to 1 Year

Specifications

Packaging	1-5-30 L
Appearance	Clear
Chemical Resistance	11>pH>2
Salt Water Resistance	Yes
Moisture Resistance	Yes

Dry Film Thickness	0.7-1 μm _
Consumption per Unit Area (Manual Application)	30-45 mL/ m^2
Density @23°C	0.86 g/ cm^3
pH Value	5- 6
Application Temperature	5°C-30°C ($\leq 50\% \text{RH}$)
Temperature Durability	150°C
Water Contact Angle	135° @10 μL
Water Contact Angle After "3000" Wet Scrub (ISO 11998:2006)	117° @10 μL
Water Sliding Angle	18° @ 60 μL
Oil Contact Angle	105° @10 μL
REACH Compliance	Yes

Storage

To achieve high quality of coating, keep the containers tightly closed in a dry, well ventilated space away from heat and ignition sources, stored at -3°C to +30°C. Shelf life of product is 12 months from date of production when stored in unopened container under suggested storage conditions. After opening the container, it is recommended to consume the product within 2 months.

Disclaimer

The technical information described in this document is based on tests and other practical experience that Nanoenzo® believes are reliable. Nanoenzo® cannot guarantee anything but ready to use quality of the product at the time of shipment, disclaims any liability for product performance and incidental or consequential damages, according to self-implementation within the user's knowledge, beyond the manufacturer's control. Please refer to the Safety Data Sheet (SDS) before use of product.

Users should consult Nanoenzo® for guidance on the suitability of specific applications. Nanoenzo® reserves the right to change the given data without further notice.