

# ECOSTAR RF 15T

**Two-component water-based polyurethane flame-retardant lacquer for wooden floors**



## Description

ECOSTAR RF 15T is a two-component water-based polyurethane flame-retardant lacquer in line with the D.M. 6 Marzo 1992 following the UNI 9796 norm. ECOSTAR RF 15T is suggested for the treatment of wooden floors and wooden materials only for flooring purposes. The class of reaction to the fire is Italian 1. ECOSTAR RF 15T has been formulated in order to meet the highest anti slip standard requirements for sportive wooden floors. ECOSTAR RF 15T is in conformity with European standards for sportive wooden floors meeting EN14904 standard's requirements. Product suitable for coating floors that must obtain Cfl-s1 fire reaction class in accordance with EN 13501-1.

## Characteristics

Mixture ratio	10/1
Application temperature	+10°C ÷ +25°C
Application	8 mm microfiber roller / brush / spray / curtain coater
Thinning (if necessary)	DILUENTE DRH2O
Coverage	1st Italian class 240 g/m <sup>2</sup> - CflS1 140 g/m <sup>2</sup>
Dust dry	30' <sup>(1)</sup>
Fingerprint dry	2 h <sup>(1)</sup>
Pot-Life	2 h <sup>(1)</sup>
Sanding	12/24 h <sup>(1)</sup>
Gloss level	roller/brush: 20 gloss spray/curtain coater: from 5 to 20 gloss <sup>(2)</sup>
Taber-test	19,7 mg <sup>(3)</sup>
Road and airfield surface characteristics UNI EN 13036-4	SLIDER 57: 104
Chemical and physical characteristics	excellent
Coating	excellent
Storage stability	6 months <sup>(4)</sup>
Packaging	5,5 L (5+0,5)
Tool cleaning	DILUENTE DNH 40 (with fresh product)

1 at 20°C and 65% R.H.

2 onto wet film of 90 micron hardened at 20°C and 65% R. H. for 7 days

3 grinding wheel: CS10, 1000 laps, load: 500g

4 in original sealed containers at temperatures between +10°C and +25°C

## How to use

Shake well before use.

The surfaces to be treated have to be cleaned, free of dust and old varnish layers.

## Spray and curtain coater application.

ECOSTAR RF 15T, catalysed according to the indicated ratio, mixed uniformly and left to rest for at least 5 minutes, has to be applied to wooden floors that have been filled, sanded and carefully vacuumed, according to the following procedure:

1st coat: 120 g/m<sup>2</sup> of the product mixed in ratio A/B = 10/1.

After 12/24 hours, sanding with 220 paper grit.

2nd coat: 120 g/m<sup>2</sup> of the product mixed in ratio A/B = 10/1.

When spraying, calculate extra for the amount dispersed. Carry out several trials to assess the level of this dispersion.

## Brush and roller application.

ECOSTAR RF 15T, catalysed according to the indicated ratio, mixed uniformly and left to rest for at least 5 minutes, has to be applied to wooden floors that have been filled, sanded and carefully vacuumed, according to the following procedure:

1st coat: 80 g/m<sup>2</sup> of the product mixed in ratio A/B = 10/1.

After 12/24 hours, sanding with 220 paper grit.

2nd coat: 80 g/m<sup>2</sup> of the product mixed in ratio A/B = 10/1.

After 12/24 hours, sanding with 220 paper grit.

3rd coat: 80 g/m<sup>2</sup> of the product mixed in ratio A/B = 10/1.

The cleaning of the varnished surfaces use plain water or water mixed with a neutral pH detergent. Do not use solvents. CHIMIVER's technical service department is ready to offer further advice and assistance. Nonetheless, all customers must ensure that the product is suitable for their requirements and meets their application and operative needs (if necessary by making preliminary tests). CHIMIVER therefore disclaims all responsibility for any dispute arising from the effect of this product once applied.

ECOSTAR RF 15T has the main function of conferring to the wooden materials "Class 1 reaction to the fire" according to the norm UNI 9796 following D.M. 6 Marzo 1992. According to our essays the final result is always good, but, since the number of woods used is high, we suggest to make preliminary tests in order to verify how the final result will be.

**This technical data sheet has been drawn up in compliance with the manufacturer's declaration as per the UNI 9796/CNVVF/CCI law.**

**Notice: The quantities above mentioned are the minimum necessary to obtain the fire repulsion of the wooden floor materials according to the Italian Law of D.M. 6 Marzo 1992. If it is impossible to apply 240g/m<sup>2</sup> of ECOSTAR RF 15T in two coats, then it's obviously possible to make other layers until the grams are reached. CERTIFIED CflS1 ACCORDING TO EN 13501-1 with a total quantity of 140 g/m<sup>2</sup>**

## Warnings

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The aforementioned UNI 9796 standard excludes: a) Wood veneered with slices or leaves of wood using thermoplastic resin based glues, b) Composites of a cellular or slatted structure with cavities filled with air or different types of materials.

## Label elements

For more information about the safe use of the product it is recommended to consult the latest version of the Safety Data Sheet.

## Web link

Be sure to have the latest version of this technical data sheet downloadable also from the following link:



[http://www.chimiver.com/tds/EN\\_ECOSTAR\\_RF\\_15T.pdf](http://www.chimiver.com/tds/EN_ECOSTAR_RF_15T.pdf)

These information are given from the best of our knowledge and technical experience. They are of general character and not binding in any way our company. Every single case should be put to a practical test by the user who assumes the full responsibility of the final result of his work.