

NAME	DESCRIPTION	APPLICATION	THERMAL EXPANSION COEFFICIENT [10 ⁻⁷ °C ⁻¹] 30-300°C	TEMPERATURE RANGE	REMARKS
WHITE SHINY LEAD-BASED GLAZES					
ESMALTE PR-23 BLANCO	A white and glossy glaze suitable for use on white and red clay bodies, pottery and coloured clay bodies. It can be used on standard bodies due to its low TEC.	It can be applied using the following techniques: dipping, spraying, bell-shaped application and slip-trail bottle application for the "Cuerda Seca" technique. It can be coloured with our "P" Series Pigments, bearing in mind this series' products contain zirconium oxide. The CD Series pigments can be used for decoration.	59-65	980°C-1000°C	Very low lead content.
ESMALTE SIGLO XVIII	White and Glossy Semi-opaque lead Glaze suitable for use on white and red clay bodies, pottery and coloured bodies. Depending on the layer of glaze on the piece, the shade of the clay used can be seen, giving it an antique look like the 18th Century glazes.	It can be applied using the following techniques: dipping, spraying, bell-shaped. It can be coloured with our "P" Series Pigments, bearing in mind it contains zirconium oxide. The CD Series pigments can be used for decoration.	60-65	980°C-1000°C	High lead content. Strictly for professional use only
ESMALTE SIGLO XV BLANCO ANTIGUO	Semi-opaque glossy glaze in the ivory shade, suitable for use on white and red clay bodies, pottery and coloured bodies. Depending on the layer of glaze on the piece, the colour of the clay used can be seen, giving it an antique look.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with the "P" Series Pigments, bearing in mind that, due to its composition, it will come out as pastel toned. The CD Series pigments can be used for decoration.	60-65	950°C-1000°C	High lead content. Strictly for professional use only
ESMALTE 5585 BLANCO	A white and glossy glaze suitable for use on white and red clay bodies, pottery and coloured clay bodies. Due to its low TEC, it adapts to all standard types of clay body.	It can be applied using the following techniques: dipping, spraying, bell-shaped application and slip-trail bottle application for the "Cuerda Ceca" technique. It can be coloured with our "P" Series Pigments, bearing in mind it contains zirconium oxide. The CD Series pigments can be used for decoration.	60-65	960°C-1020°C	Low lead content.

NAME	DESCRIPTION	APPLICATION	THERMAL EXPANSION COEFFICIENT [10-7 °C-1] 30-300°C	TEMPERATURE RANGE	REMARKS
WHITE MATTE LEAD GLAZES					
ESMALTE M-90/11-M BLANCO MATE	An opaque white matt glaze suitable for use on white, terracotta and red clay bodies, pottery and coloured clay bodies.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains zirconium oxide and zinc. The CD Series pigments can be used for decoration.	55-59	980°C-1020°C	High lead content. Strictly for professional use only
CLEAR MATTE LEAD GLAZES					
ESMALTE G-1005 TRANSPARENTE MATE	Transparent matt glaze suitable for use on white clay body. For red clay, pottery, terracotta or coloured clay bodies, an initial test is recommended, as the clay bodies' colours may change depending on the glaze application's thickness.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains zinc oxide. The CD Series pigments and the "P" Series can be used for decoration.	58-63	950°C-1020°C	High lead content. Strictly for professional use only
CLEAR GLOSSY LEAD GLAZES					
ESMALTE 5005 TRANSPARENTE	A very clear and glossy glaze, designed for decorated white clay bodies.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments for a very good colour yield, especially with very bright colours. It can be decorated by paintbrush or printing with The CD Series pigments. An initial test with the clay must be done when firing at temperatures higher than 1020 °C.	60-65	980°C-1050°C	Low lead content. Strictly for professional use only

NAME	DESCRIPTION	APPLICATION	THERMAL EXPANSION COEFFICIENT [10-7 °C-1] 30-300°C	TEMPERATURE RANGE	REMARKS
ESMALTE PR-47 TRANSPARENTE	A clear, glossy glaze, designed for traditional pottery clay bodies as well as for ceramic or coloured bodies. A high melting viscosity lead-based product is recommended to produce coloured glazes at temperatures above 1000°C.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments for a strong colour yield, especially with chromium-, tin- and calcium-based colours. An initial test with the clay must be done when firing at temperatures higher than 1020 °C.	61-65	980°C-1050°C	High lead content. Strictly for professional use only
ESMALTE G TRANSPARENTE	A clear, glossy glaze suitable for use on white, red and coloured clay bodies. It can be used as a Flux base for decorative colours to be hand-painted or printed on, with excellent results for blues and chromium- and tin-based pinks, and as an additive to glazes to reduce the melting point.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides for a very good colour yield, especially with very bright colours. It can be decorated using a paintbrush or underglaze printing with our CD Series pigments.	70-74	940°C-1020°C	High lead content. Strictly for professional use only
ESMALTE PR-211-B TRANSPARENTE	A clear, glossy glaze suitable for use on white clay bodies, traditional pottery and rustic tiles. We recommend using it on white Engobe or the PR-120-BB white base to obtain a very white and glossy finish.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides for a very good colour yield, especially with very bright colours. It can be decorated using a paintbrush or underglaze printing with our CD Series pigments .	64-69	960°C-1020°C	High lead content. Strictly for professional use only
ESMALTE PR-0 TRANSPARENTE	A clear, glossy glaze for use on traditional pottery. Suitable for use in once-fire.	It can be applied using the following techniques: dipping, spraying, bell-shaped freefall application. It can be coloured with our "P" Series Pigments and with natural oxides. It can be decorated using a paintbrush or printing with our series of Decorative Colour Oxides, the CD Series. Very widely used on coloured engobes for its high colour yield.	64-68	940°C-980°C	High lead content. Strictly for professional use only

NAME	DESCRIPTION	APPLICATION	THERMAL EXPANSION COEFFICIENT [10-7 °C-1] 30-300°C	TEMPERATURE RANGE	REMARKS
ESMALTE P.E. TRANSPARENTE	A clear, very glossy glaze with medium lead content. Recommended for use as a base to create and colour “Cuerda Seca” technique glazes or relief glazes.	It can be applied using the following techniques: dipping, spraying and slip-trail bottle application. It can be coloured with our "P" Series Pigments and with natural oxides. It can be decorated using a paintbrush or printing with our series of Decorative Colour Oxides CD Series.	67-73	950°C-1000°C	Medium lead content. Strictly for professional use only
ESMALTE C-551 TRANSPARENTE	A clear, glossy glaze designed for application on red or white clay bisque-fired tiles.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides. It can be decorated using a paintbrush or printing with our series of Decorative Colour Oxides, CD Series.	60-65	960°C-1050°C	Medium lead content. Strictly for professional use only
ESMALTE CQ-001 TRANSP. CRAQUELÉ	A clear, glossy, alkaline, crackled glaze, recommended for use on white clay bodies and underglaze decoration. Not recommended for tableware due to its crackled effect. Indicated as a coefficient correcting glaze for other glazes that are affected by peeling defects.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides. It can be decorated using a paintbrush or printing with our series of Decorative Colour Oxides CD Series. Once the piece is finished, it's recommended to use a dark-staining finish to make the crackled effect stand out.	90-94	940°C-980°C	High lead content. Strictly for professional use only
MONOSILICATO DE PLOMO	A very glossy, shiny base which contains the frit with the highest possible level of lead. It can be used as an additive to reduce the melting point, as a viscosity corrector.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides. Adapted for once-fire.	85-90	800°C-950°C	Very high lead content. Strictly for professional use only
BISILICATO DE PLOMO	Transparent Bright high lead content Glaze. It is used in formulations of medium and high temperature glazes to increase bright and colour development.	It can be applied using the following techniques: dipping, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments and with natural oxides. Adapted for once-fire.	80-87	850°C-1000°C	Very high lead content. Strictly for professional use only

GENERAL RECOMMENDATIONS FOR TRANSPARENT AND WHITE LEAD GLAZES

- 1 The colouring of any of these glazes with natural colouring oxides such as copper, manganese, iron oxides, etc. requires prior testing with different colour percentages.
 - 2 All these glazes can be adapted to the different glazing processes, whether in artisanal, personal hobby or industrial production. In each case, the density and viscosity adjustment of the glaze can be adapted to the glazing process with the appropriate use of the usual additives: Suspending agent, Deflocculant no. 7 and Monocol V.
 - 3 For once-fire glazing methods, we recommend the addition of 5% Monocol V for a good adhesion of the glaze to the piece. It is always necessary to test the density and viscosity of the glaze on the piece to check the drying time of the piece before putting it in the kiln , the temperature and firing cycle.
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 - 5 The engobes recommended for these transparent and white glazes references are ENSP-00 as a base and ENSP-01 White.
- For further information, visit our web www.prodesco.es or contact us by email on: departamentotecnico@prodesco.es