

FERREX COMBI

Water-borne anticorrosive paint

Water-borne tintable anticorrosive paint for priming, top coating and one layer painting for nearly all unpainted and previously painted metal surfaces indoors and outdoors. Excellent adhesion to metal and painted surfaces, as well as good weather and wear resistance.



Corrosivity categories C4 and C5. Finish: semi-matt.

Objects to be painted: Metal surfaces indoors and outdoors. Steel and iron surfaces, when excellent anticorrosive properties and/or adhesion priming are required: e.g. sheet-iron roofs, facades, balcony constructions, roof ladders, fence constructions, doors, windows, pillars, beams, fixed and detached furniture.

Recommended substrates: Various metal surfaces, such as iron, steel, zinc-coated steel, galvanized sheet steel (roof and facade sheets), aluminium and copper. Metal surfaces previously painted or primed with acrylate, alkyd, polyurethane, epoxy and polyester binder based paints or coatings. Adhesion on prefabrication primers is also good.

Good weather resistance, so top coating is not necessary. Excellent colour and gloss retention.



TECHNICAL DATA

Certificates, approvals and classification	Finnish Key Flag
Fields of application	Balcony elements, Exterior doors, Fences, Fixed furniture, Furniture, Roof, Steel constructions, Windows
Recommended substrate	Aluminium, Cast iron, Metal, Sheet-iron, Steel
Solids	Approx. 41% by volume
Volatile organic compound (VOC)	EU VOC limit value (kat A/i): 140 g/l. The product's VOC: max. 140 g/l.
Practical spreading rate	7 - 9 m ² /l (one application by brush, approx. 50 µm dry film thickness).
Colours	Base paints 1 (white) and 3, which can be tinted to obtain the shades in Exterieur Colour Card. Ready-made shades: grey S 4500-N, black S 9000-N.
Tinting system	Teknomix
Gloss (60°)	Semi-matt
Thinner	Water.
Density	Approx. 1.2 g/ml
Storage	Must not freeze.

Packaging

Base paints 1 and 3: 0.45 l, 0.9 l, 2.7 l, 9 l, 18 l.
Grey and black: 0.5 l, 1 l, 3 l, 10 l, 20 l.

DIRECTION FOR USE**Surface preparation**

STEEL AND ALUMINIUM SURFACES: Surfaces to be painted are cleaned from dirt, grease, oil and other impurities. RENSA STEEL washing agent, solvent wiping etc. is used for cleaning. Steel surfaces: minimum requirement is thorough wire-brushing to preparation grade St2; recommendation to preparation grade Sa 2½ (ISO 8501-1).

PREVIOUSLY PAINTED METAL SURFACES: Surfaces are cleaned from dirt, grease, oil and other impurities. RENSA ROOF washing agent, solvent wiping etc. is used for cleaning. Loose and poorly adherent paint or coating is removed. Rust is removed from the surfaces (preparation grade St2) using wire-brushing or other suitable method.

PLASTIC COATED ROOF AND WALL SURFACES: Can be used for touch-up painting of rusted areas. Rust is removed from the surfaces (preparation grade St2) using wire-brushing or other suitable method. The edge of the cleaned area and solid paint layer is sanded smooth in order to ensure adhesion of the top coat. Sand the old painted surfaces matt from the areas, which will be touch-up painted with FERREX COMBI.

Application method

Brush, Spray
Suitable airless nozzle size 0.015 - 0.019".

Application Stir thoroughly before use.
On vertical surfaces, when a dry film thickness of over 100 µm is desired, we recommend spray application twice. When FERREX COMBI is left without a top coat and applied with a brush, we recommend at least two coats.

Recommended film thicknesses (substrate hot-rolled steel, blast cleaned to preparation grade Sa 2½):			
	Spreading rate g/m ²	Wet film (µm)	Dry film (µm)
Corrosivity category C4-H (white, black, grey):	222	183	75
Corrosivity category C4-H (Teknomix tinted):	296	244	100
Corrosivity category C5-H (white, black, grey):	444	366	150
Corrosivity category C5-H (FERREX COMBI white, black, grey + FERREX COMBI Teknomix tinted):	444 + 148	366 + 122	150 + 50

Corrosivity categories and testing according to EN ISO 12944-6:2018. Coating systems presented in the table do not comply with standard EN ISO 12944-5:2018.

Application conditions The surface to be treated has to be dry. During the application and drying period (note also the temperature of the night following the application) the temperature of the ambient air, the surface and the product shall be above +10°C and the relative air humidity below 80%. If the temperature of the surface to be painted exceeds +40°C, the application properties and the adhesion of the paint may deteriorate.

Drying time +23°C / 50% RH
- touch dry approx. 1 h depending on the substrate and the amount applied.
overcoatable approx. 4 h
 The drying process will be slower in cold and/or damp.

Top coating and suitable top coats Water-borne outdoor paints, e.g. KIRJO AQUA paint for sheet-iron roofs, NORDICA house paints, VISA opaque wood stain, SILOKSAN FACADE silicone emulsion paint, SILOKSAN ANTI-CARB protective paint.
In outdoor objects where particularly good mechanical resistance is required: TEKNODUR COMBI 3430 polyurethane paint.
Furniture paints in indoor use: paints from FUTURA AQUA series.
Water-borne interior paints, e.g. paints from BIORA, TEKNOSPRO, TIMANTTI and TEKNO WALL series and TEKNOFLOOR AQUA floor paint.

Resistance Weather resistance: Good. Can also be left without a top coat.

Cleaning

Warm water and RENSA BRUSH brush cleaner. Wash the equipment immediately after use.

HEALTH AND SAFETY**Safety and precaution measures**

See safety data sheet.

Teknos Group Oy Takkatie 3, P.O.Box 107 FI-00371 Helsinki, Finland Tel. +358 9 506 091

The above information is normative and based on laboratory tests and practical experiences. The information is noncommittal, and we cannot accept liability for the results obtained under working conditions beyond our control, and consequently the buyer or the user is not released from the obligation to test the suitability of our products for specific means and application methods under the actual application conditions. Our liability covers only damage caused directly by defects in the products supplied by Teknos. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos' Technical Data Sheets and Safety Data Sheets are available from our homepage www.teknos.com. All trademarks displayed on this document are the exclusive property of Teknos Group or its affiliated companies.