

KLONDIKE CORTEN TOP

Technical Sheet

NAME:

TYPE:

USE:

CHARACTERISTICS:

KLONDIKE CORTEN TOP

A coating for exteriors and interiors characterized by the Corten effect, which precisely reproduces the well-known original rust effect with its distinct metal oxidations

water-based interior and exterior decorations

specific weight: 1.200 ± 30 gr/LT at 25°C

viscosity UNI 8902: 23000 ± 1000 at 25°C cps

Measurement of bond strength by pull-off in accordance with UNI EN 1542:2000:

PRODUCT APPLIED ON A WET SURFACE

Specimen	Bonding Area	Failure Load	Tensile bond strength	Type of Failure	Visible Defects
(n°)	A [mm ²]	Fh [N]	fh [N/mm ²]		
1	1808,6	2722,4	1,51	100% A/B	None

PRODUCT APPLIED ON A DRY SURFACE

Specimen	Bonding Area	Failure Load	Tensile bond strength	Type of Failure	Visible Defects
(n°)	A [mm ²]	Fh [N]	fh [N/mm ²]		
1	1808,6	2423,2	1,34	100% A/B	None

Determination of thermal compatibility after freeze-thaw and de-icing cycling in accordance with UNI EN 13687:2003:

SAMPLE WITHOUT FREEZE-THAW CYCLING

Specimen	Bonding Area	Failure Load	Tensile bond strength	Type of failure	Visible Defects
(n°)	A [mm ²]	Fh [N]	fh [N/mm ²]		
1	1816,2	3034	1,67	70% A/B 30% B	None

SAMPLE AFTER FREEZE-THAW CYCLING

Specimen	Bonding Area	Failure Load	Tensile bond strength	Type of failure	Visible Defects
(n°)	A [mm ²]	Fh [N]	fh [N/mm ²]		
1				100% A/B	None

Determination of liquid water permeability in accordance with UNI EN 1062-3:2008:

Determination of liquid water permeability (W) < 0,09 Kg/m² *h^{1/2}

Determination of water vapor transmission properties in accordance with UNI EN ISO 7783-2012:

For thickness equal to 350µm CatV₂. For thickness equal to 1000 µm Cat. V₃

Determination of fungi power in accordance with UNI EN 15457:2014:

Resistance to fungi growth on the surface with coating material of the specimen.

Determination of algae power in accordance with UNI EN 15458:2014:

Resistance to algae growth on surface with coating material of the specimen. Classification 0 – no allowing algae growth on the coating

yield: 2 - 3 m²/LT one coating on a smooth surface (it may vary according to the roughness, surface absorption and application methods)
 1,5 - 2 m²/LT two coatings on a smooth surface (it may vary according to the roughness, surface absorption and application methods)

aesthetic effect: oxidised steel
colours: colours from the catalogue
packaging: LT. 1 - LT. 2,5- LT. 5
on the surface: 1 hour at 20°C
overpainting: 3-4 hours at 20°C
in depth: 24 hours at 20°C

DRYING::

CHARACTERISTICS AND RESISTANCE:

Klondike Corten Top, is even more breathable and washable than Klondike Corten Top. Its chemical composition features the lotus effect. This characteristic has a double cleaning effect: the raindrops slide off the painted surface taking away most of the dust and it avoids the settling of mixed polluting elements on the surface

Once the product hardens completely, a breathable film forms having excellent resistance to abrasion. Once dry, KLONDIKE CORTEN TOP can withstand both high temperatures (+50°C) and low temperatures (-40°C).

PREPARATION OF THE SURFACE:

Smooth surfaces: Strip away old peeling paint or crumbling paint and wash with adequate soap. Next, apply filler where necessary to obtain a uniform surface. Once the surface dries, sand it and apply a suitable fixative, especially on lime-washed surfaces or on lime-based plasters. Next, apply PRIMER 1200 with a woollen roller or brush or sprayer with criss-cross strokes for improved coverage. After 6 hours at 20°C, apply KLONDIKE CORTEN TOP.

Rough or unfinished surfaces: Strip away old peeling paint or crumbling paint and wash with adequate soap. Apply a suitable fixative, especially on lime-washed surfaces or on lime-based plasters. Next, apply a coat of KLONDIKE RASANTE R7 using the PV 43 stainless steel trowel so as to smooth the surface as far as possible. KLONDIKE RASANTE R7 also acts as a primer, therefore, after 12 hours at 20°C, apply KLONDIKE CORTEN TOP without applying PRIMER 1200.

PREPARATION OF THE PRODUCT: APPLICATION:

dilution: ready to use
system brush-trowel
number of coatings: 1-2

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APPLICATION CYCLE:

1) Trowelled effect: Apply one coat of KLONDIKE CORTEN TOP to fully cover the surface using the PV 43 stainless steel trowel, applying strokes in all directions to leave a layer of paint roughly 1 mm thick.

Coverage: One litre for roughly 2 - 3 m², one coat on smooth surfaces.

2) Dripping effect: Apply one coat of KLONDIKE CORTEN TOP with the narrow side of brush PV 09 or block brush Item 128 from top to bottom and vice-versa, leaving jagged streaks 1 mm - 2 cm wide and 1 - 2 mm thick, and as long as possible, along the entire surface being decorated.

After 15 - 20 minutes at 20°C, apply a second coat using the stainless steel PV 43 trowel and spread the paint vertically from top to bottom and vice-versa, leaving a layer of paint roughly 1 mm thick. Lastly, smooth the surface vertically while taking care not to remove KLONDIKE CORTEN TOP.

It is important to apply the product wet-on-wet to avoid letting it dry, especially along the joints.

Coverage: One litre for roughly 1.5 - 2 m², two coats on smooth surfaces

Application temperature: above +10°C and below +25°C. Do not apply under direct sunlight or in windy conditions. Avoid applying on humid days or on ice-cold surfaces.

Storage: in a tightly closed container, even after use, at temperatures above +5°C and below +30°C.

Stability: roughly 1 year in tightly closed containers that are never opened

NOTES:

Mix very well before use. Wash the tools soon after use with water and soap.

Technical Sheet n° SC 00260 issued by the Responsible Quality Control:

Edition n° 2

July 2016

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