

B151a.en



Firewin

07/2016

## Knauf Firepaint Primer K1

Primer for carbon steel surfaces

# B151a.en Knauf Firepaint Primer K1

Primer for carbon steel surfaces



## Product description

Knauf Firepaint Primer K1 is a very quick-drying anticorrosive primer/finish pigmented with zinc phosphate as anticorrosive inhibiting pigment.

### Storage

Knauf Firepaint Primer K1 shall be stored in dry, shaded areas. The recommended storage conditions are between 5°C and 40°C. The shelf life may vary depending on the storage conditions. At 25°C the shelf life is 60 months from date of manufacture. The shelf life may be reduced if the products are stored outside Knauf's recommended storage conditions. The products must be re-inspected before use in case the shelf life is exceeded.

## Scope of application

Knauf Firepaint Primer K1 is used as a single/double coat anticorrosive primer (or finish - to put directly) for steel structures, general steel work and a multitude of applications for heavy and light steel industry, where quick drying properties are required. It is for general use, in exterior and interior steel surfaces. Suitable for protection of steel in mild to medium atmospheric corrosive environments.

### Method of delivery

Knauf Firepaint Primer K1  
bucket 20l article no 528433

## Properties

- Very fast drying properties, perfect solution for in shop application
- Excellent recoatability with polyurethane, alkyd and chlorinated rubber topcoats
- Good results with most means of application including brush
- Good adhesion to steel
- Friendly for both user and environment, does not contain any lead and chromates

## Application guidelines

### Surface preparation

Cleaning and degreasing. Entire area to be (high pressure) fresh water cleaned in order to remove salts and other contaminants. When the surface is dry, perform abrasive blasting to minimum Sa 2½ according to ISO 8501-1. In case oxidation has occurred between blasting and application of the primer, then the surface should be reblasted and primed. Under restrictions St3 steel can be accepted. Degrease and high pressure water wash the substrate, prior to the St3 cleaning. Special care shall be taken to avoid polishing of the surface. Power tools such as chipping hammers, needle guns and power rotary wire brushes will provide acceptable roughness for proper adhesion of the primer. It is not acceptable that any mill scale is present on the cleaned surface.

For steel prepared to St3, use primer Knauf Firepaint Primer K1. Afterwards apply Knauf Firepaint Steel and/ or Knauf Firepaint Finish as per the normal instructions. The St3 preparation is generally only recommended for repair of small areas.

### Application

Knauf Firepaint Primer K1 can be applied by brush, roller or airless spray. Use a nozzle orifice of 0.015-0.017" to achieve a dry film thickness of 40-60 µm or nozzle orifice of 0.019-0.021" to achieve a dry film thickness of 60-120 µm. Nozzle pressure 200 bar. Airless spray data are indicative and subject to adjustment.

It is possible to apply 2 coats of the product up to recommended dry film thickness. Normal range dry is: 60-80 µm, but up to 120 µm can be applied in one coat.

When applied at lower film thickness the recommended dilution is 5%. The most used systems are 2 x 40 µm, 2 x 60 µm and 2 x 80 µm, less used is 1 x 120 µm. For thinning use Knauf Firepaint Thinner (AL). When applied at lower film thickness the recommended dilution is 5%.

### Processing temperature / conditions

Knauf Firepaint Primer K1 can be applied only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying. The temperature should not be below: 5°C.

### Drying Time/ Overcoating Interval

Drying time and overcoating interval are dependent on temperature and relative humidity. Overcoating: Overcoating intervals related to later conditions of exposure: If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion. Before overcoating after exposure in contaminated environment, clean the surface thoroughly with high pressure fresh water hosing and allow drying.

### Safety

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Knauf Safety Data Sheets and follow all local or national safety regulations.

**Knauf Firepaint Primer K1 for professional use only.**

## Technical details

Shade nos/Colours	RAL 9002 or RAL 3009
Finish	flat
Volume solids	% 49 ± 1
Theoretical spreading rate	7.0 m <sup>2</sup> /l - 50 µm
Flash point	25 °C
Specific gravity	1.4 kg/litre
Dry to touch	15 minutes (proper ventilation is required)
Dry to handle	1 hour (proper ventilation is required)
VOC content	442 g/l



We reserve the right to make technical changes. The current version is always valid. Our warranty is expressly limited to our products in flawless condition. The stated constructional and structure properties, and characteristic building physics of Knauf systems can solely be ensured with exclusive use of Knauf system components or other products expressly recommended by Knauf. All application quantities and delivery amounts are based on empirical data that are not easily transferable to other deviating areas. All rights reserved. All amendments, reprints and photocopies, including those of excerpts, require our expressed permission.

The stated constructional and structure properties, and characteristic building physics of Knauf systems can solely be ensured with exclusive use of Knauf system components or other products expressly recommended by Knauf.

NOTE: This document becomes invalid when replaced by a new version.