



SURFACE SPECIALITY CHEMIE

K RUSTOFIL 1080

It is anti rust filler additives made of proper blend which works on principal of protective layer formation on surface of metal

As the phosphate dissolves in water, the radical forms a layer of phosphate coating. This layer prevents oxygen, water and other substances from corroding metal surfaces.

Furthermore, surface treatment of the powder particles improves binding of pigments to resin and to metal surfaces as it also enhances the anti-corrosion properties of the film.

Technical Properties

Physical Appearance	White free flow powder
P ₂ O ₅	≥35.0%
Screen particle pass through 500 mesh %	≤1.0
Specific gravity	2.2 – 2.8 g/cm ³
Oil Absorption	25 – 35%
pH Value of aq.solution	6.5-7.5

BENEFITS:

Totally replaces all costly anticorrosive pigments

Very easy to disperse

Water and solvent based system

Easy incorporation –post addition also possible

White color –**heavy metal free**

Significantly better anti-corrosive properties than others regular products

Lower dosage than others regular products

Better water resistance

Dosage

1-5% on supplied form in general

high salt spray epoxy system- 3-6% on total formulation

Alkyd or epoxy ester – 1-3% on total

Others industrial resin system – 1-4% on total

Comparison Test between K RUSTOFIL 1080 and Zinc Phosphate

Testing Formulas (Film thickness: 5mm)

Items	Dosage	Items	Dosage
Alkyd Resin	45	Alkyd Resin	45
Titanium Dioxide	15	Titanium Dioxide	15
K-RUSTOFIL 1080	3	Zinc Phosphate	5
Barium Sulphate	12	Barium Sulphate	12
Talc	17	Talc	15
Bentone clay	0.5	Bentone clay	0.5
Lead Naphthenate	1.5	Lead Naphthenate	1.5
Cobalt Naphthenate	0.4	Cobalt Naphthenate	0.4
Manganese Naphthenate	0.2	Manganese Naphthenate	0.2
Anti-Skinning Agent	0.2	Anti-Skinning Agent	0.2
Thinner	5.2	Thinner	5.2

Test Results and Recommendations

- No blistering and no rust either panel.
- Satisfactory performance under the same conditions in both salt spray test and salt water immersion tests.
- Both panels presented unsatisfactory blistering after the 240-hour salt spray test using alkyd resin.
- K RUSTOFIL 1080 corrosion-proofing is superior to zinc phosphate, but high oil absorption. so K RUSTOFIL 1080 dosages should be 40% less of zinc phosphate.

DISCLAIMER:

The information contained in this tds is based on our experience and laboratory tests and true to the best of our knowledge. However, no warranty, express or implied, arising out of the use of our product is given as the conditions of use are beyond the control of manufacturers of this product. Customers are advised to carry out their own tests to judge the suitability of our product for the recommended applications.

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