

Acronal[®] PRO 780

General

Acronal[®] PRO 780 is a polymer emulsion for medium-duty anti-corrosion primers, fillers or topcoats for industrial metal coatings.

Key features & benefits

enhanced corrosion resistance with good barrier and inhibiting
suitable for light to medium duty primer applications
good adhesion on steel
good application properties (airless spray, dip)
high pigment loading
APEO free, zinc free

Chemical nature

Styrene acrylic dispersion

Properties

Appearance

Milky white liquid

Typical properties

(no supply specification)

solids by weight	50%
viscosity at 23 °C (Brookfield)	190 mPa·s
pH value	8.5
specific gravity	1.09 g/mL
MFFT	22°C
freeze/thaw-stable	Not Stable

Application

Acronal[®] PRO 780 is a unique barrier and inhibiting polymer emulsion for medium-duty anti-corrosion primers, fillers or topcoats (ISO 12944- 2:C2-C3).

Performance

Acronal[®] PRO 780 offers good salt-spray resistance for C2-C3 with dry film thickness of 80 microns. This barrier and inhibiting product offers an active corrosion protection barrier against oxygen water and other ions that cause surface erosion as well as good early rain resistance and excellent adhesion.

Spraying with airless application combined with good substrate wetting gave an excellent film formation up to 200 µm wet film thickness.

Formulation guidelines

Acronal® PRO 780 is compatible with a variety of anti-corrosion additives. The product provides the possibility to formulate with a range of reactive anti-corrosion pigments, especially those based on zinc phosphates. Please keep the pH at least at 8.5 while formulating a paint.

The minimum film-forming temperature of Acronal® PRO 780 is approximately 22°C. Suitable film-forming agents should generally be added to achieve homogeneous films at lower temperatures. The recommended addition is 2%~4% of a blend of white spirit and 2-butoxyl ethanol and/or 2-(2-butoxyethoxy) ethanol or phenoxy propanol or DPnB.

Viscosity and flow can be adjusted by adding thickeners, preferably in the final stage of production. In particular from the corrosion-protection aspect, associative thickeners such as Rheovis® PU 1291 are time-tested. Good leveling and Newtonian flow can be achieved with water-miscible solvents present. In aqueous anti-corrosion formulations, the proportion of thickener should not exceed 1%, calculated as solids on solid binder.

Storage

This product has to be stored in tightly sealed original packaging at temperatures above 0°C. This product must be protected from frost for a long time.

For further detailed application information please contact our Technical Support Department.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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