

CoatOSil™ P576

CoatOSil* P576

Description

Medium-hard high solid phenylmethyl silicone resin in solvent.

Typical Physical Properties

Viscosity, 23°C, DIN 53 015	600 - 1300 mPa.s
Iodine color value, DIN 6162	max. 4

Potential Applications

Binder for anticorrosion coatings with thermal stability up to 600°C.

The main potential fields of application are the coating of machine components, engine manifolds, car exhaust silencers, drying units etc. These applications commonly use one-coat finishes. Systems of this kind may also be utilized in the sealing of spray-metallized surfaces.

Form Supplied

Approx. 75% in xylene (technical): butanol = 4 : 1

Drying

Coatings formulated with CoatOSil Resin P 576 typically dry tack-free at room temperature, yielding films with good mechanical resistance, weather stability and corrosion resistance. However, optimum mechanical properties and resistance to oil and petrol generally require a minimum exposure to temperatures above 200°C, for about one hour. Drying at room temperature may be improved by the addition of approximately 3% high molecular weight ethyl cellulose, calculated on the solid binder.

Pigments

Aluminium bronze and Micaceous iron oxide should generally be used. Micaceous iron

oxide coatings can be tinted with suitable heat-resistant inorganic color pigments. A long-term thermal stability up to 600°C can typically be achieved with aluminium bronze or micaceous iron oxide.

Black coatings should generally be pigmented with Bayferrox 303 T and Fast Black 100. The long-term heat resistance of such systems is generally 550 - 600°C.

The shelf life of coatings prepared according to recommended guidelines is generally 3 - 6 months.

The use of zinc dust is not recommended..

Solubility

Aliphatic hydrocarbons	Insoluble
Aromatic hydrocarbons	Soluble
Alcohols	Insoluble
Esters	Soluble
Ketones	Soluble
Glycol ethers	Soluble

Compatibility

CoatOSil Resins	
M range	Incompatible
UD range	Partly compatible
Organic binders	partly compatible

Packaging

200 kg steel drums, 18kg pails

Patent Status

Standard copy to come

Product Safety, Handling and Storage

When stored in its original, unopened container at 25°C, CoatOSil Resin P 576 has a shelf life of 360 days, from the date of manufacturing.

As the product contains solvents, the relevant regulations on the handling of such products should be observed.

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Limitations

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