Diofan® P 520

Polyvinylidene Chloride

Solvay Specialty Polymers

Message:

Diofan® P 520 is a one-component, water-based dispersion of a polyvinylidene chloride (PVDC) copolymer. It is free of solvent traces, alkylphenol ethoxylates or any other toxic substances. Due to its low oxygen and water vapor permeabilities along with low water absorption, Diofan® P 520 is an outstanding protective copolymer used in a broad variety of formulations that are specific to end-use requirements.
This material was developed to adhere on metal and to remain flexible when exposed to a broad range of end-use temperatures over time. This makes it an ideal binder for one-component, air drying, waterborne formulated paints and coatings where long-lasting protection of the substrate is targeted.
Diofan® P 520 also provides excellent chemical resistance and flame-retardant properties. Typical applications are:
Corrosion-resistant primers and coatings for industrial and heavy duty steel protection
Automotive primers and underbody coatings
Rust converter products
Barrier and sealing coatings
Flame-retardant coatings
Fibers and textile coatings

General Information		
Features	Low VOC Moisture proof Good adhesion Good chemical resistance Non-toxic Flame retardancy Oxygen barrier	
Uses	Protective coating Coating application	
Agency Ratings	EC 1907/2006 (REACH) Europe No 10/2011	
Appearance	milky white	
Forms	Liquid	
Physical	**Nominal Value**	**Unit**
pH	1.5	
Surface Tension	45	mN/m
Film forming property-Film forming temperature	10	°C
Solids Content	56	%
Density-Dispersion (wet)	1.260	g/cm^3
Emulsion type	anion	
Shelf Life	8	month
Thermal	**Nominal Value**	**Unit**

Glass Transition Temperature [1]	14.0	°C

Additional Information	Nominal Value	Unit

DELIVERY AND STORAGE

Diofan® P 520 is delivered in bulk or in Intermediate Bulk Containers (IBC). Bulk supplied latex should be stored in reservoirs made of suitable stainless steel, HDPE, rigid PVC or glass fiber-reinforced polyester.

Contact of anionic Diofan® dispersion with metals like iron, zinc, aluminum and copper as well as alloys such as brass and bronze must be avoided.

Keep the vessels tightly closed to prevent drying through evaporation. Store the product ideally between 5°C and 25°C (41 °F and 77°F) to avoid degradation.

FOOD AND DRUG LEGISLATIONS

Some agency ratings are listed on page 1. Necessary certification will be provided upon request.

ISO CERTIFICATION

The implemented management system for the production, internal transfer and delivery, design and development of Diofan® vinylidene chloride copolymers (PVDC) produced in Tavaux has been assessed and found to meet the requirements of ISO 9001: 2008, ISO 14001: 2004 and OHSAS 18001: 2007.

NOTE	
1.	Glass transition temperature of dry Latex

Recommended distributors for this material

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