

## HKP-ZFP | ZN-CP301

*nanostructured zinc flake stir-in pigments/coatings*  
**excellent corrosion resistance ☀ VOC-low ☀ water-stable**  
**-high performance zinc flake anti-corrosion coating-**



### Industry:

**coating-industry**

ZFP can be manufactured faster | solvent-free ⇒ volatile organic compound (VOC)-low | water-stable | cost-effective | environmentally friendly with | excellent surface and | high corrosion-resistance

**steel-industry**

ZN-CP301 can be applied for steel and other metals and for standard demands (e.g. fasteners)

### Product/innovation 100% ready to market proved:

**technologically**

→ short process times by High Kinetic Processing (HKP), good shelf life, high corrosion resistance

**economically**

→ cost-effective: shorter processing times, solvent-free production: less disposal

**ecologically**

→ solvent-free production ⇒ low VOC during processing, water-based coating systems

### Technical advantages:

**corrosion resistance**

salt spray test, deg. 1 (DIN EN ISO 9227), condensation clima test, deg. 0 (DIN EN ISO 6270-2)

**stability**

water storage, deg. 1 (DIN EN ISO 2812-2) ⇒ water-stable ZFP by solvent-free *in situ* HKP-coating

**surface**

smooth surface, easy applicable, air dry finish

**application**

except Simoloyer® plant, shorter and solvent-free manufacturing, water-based coatings

### Cost advantages:

**high corrosion resistance**

→ less material, less maintenance

**water-stability**

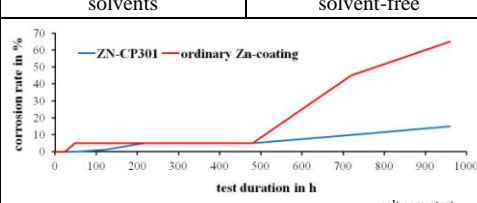
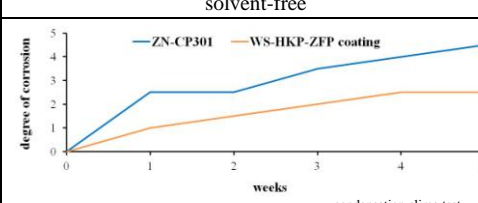
→ more applications possible, more markets, no solvents necessary to produce ZFP

**high stability**

→ less waste, renewing less often

**VOC savings**

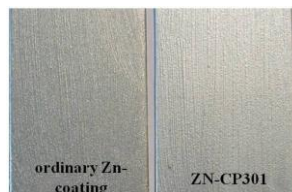
→ can represent cash earnings/savings as well

compared properties	Zinc-coating <b>Ordinary-RESIN</b>	ZN-CP301 <b>Zoz-RESIN</b>	WS-HKP-ZFP <b>Zoz-WATER</b>
base	<b>2K-RESIN</b>	<b>2K-RESIN</b>	<b>3K-WATER</b> ☀
manufacturing ZFP	days - weeks solvents	hours solvent-free	hours solvent-free
corrosion			
water storage	deg. 2	deg. 1	deg. 0
elasticity [mm] (before/after corrosion)	4/4	5/5	tba
impact resistance [J] (before/after corrosion)	5/5	5/5	tba
adhesion strength (before/after corrosion) (scale 0-5 pts., 0 is best)	0/1	0/1	0/0

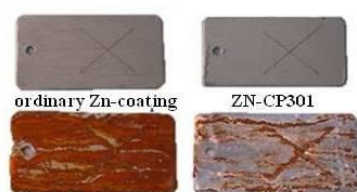
HKP-ZFP: stir-in pigments



high surface quality



high corrosion resistance within ZN-CP301



manifold applications

