Dowill

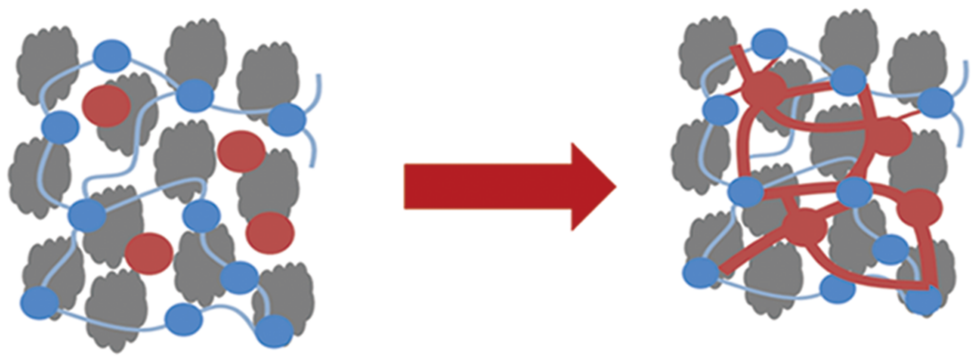
无溶剂涂料
DW ULV G50



Dowill Paint

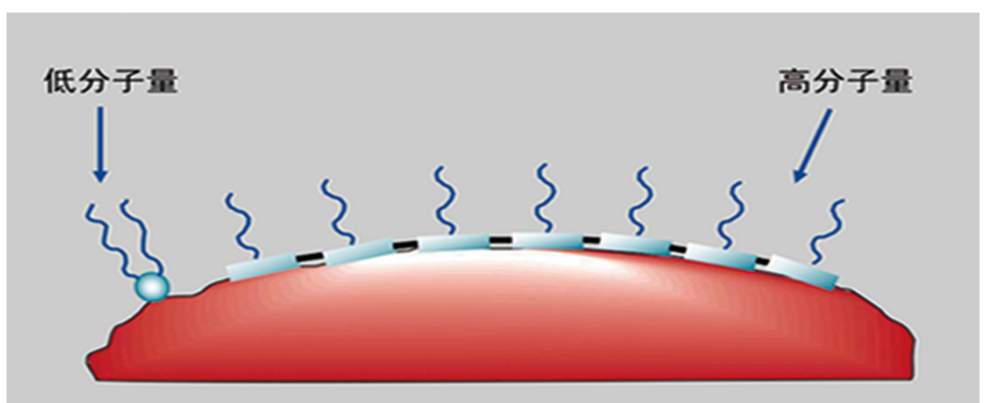
德威涂料

设计思路创新
Design Concept Innovation



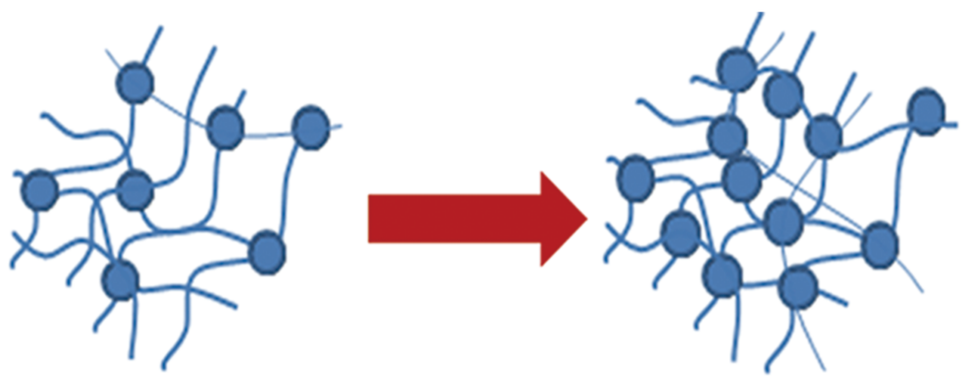
含有螯合基团的有机-无机树脂

Organic and inorganic resinswith chelating groups



高分子分散剂，底材润湿性优异

Excellent wettability with highmolecular weight wetting additive



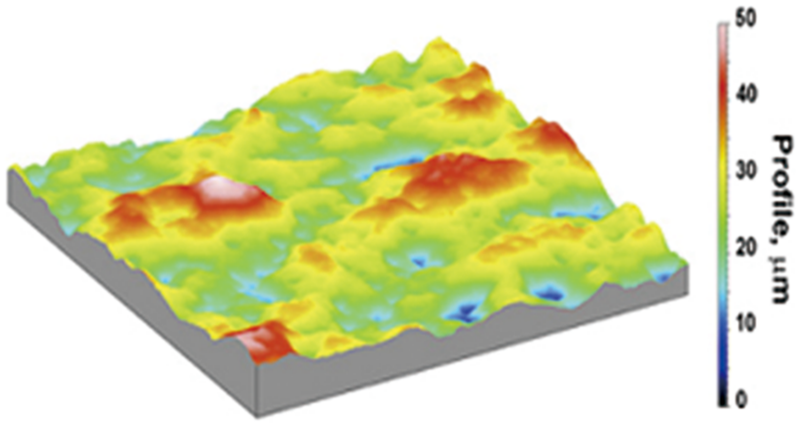
小分子结构，交联密度大

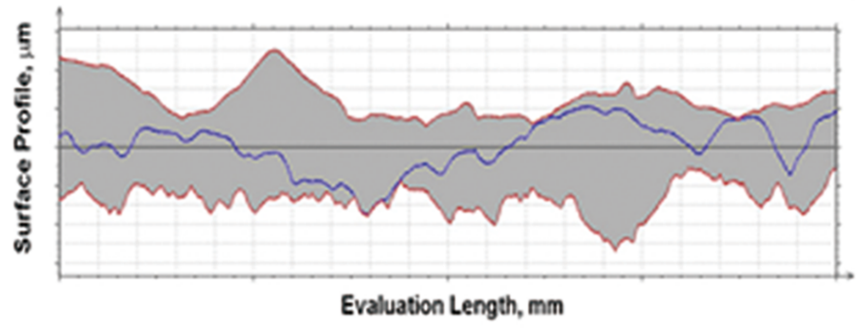
High cross-linking density with specialsmall molecular structure

含有螯合基团，结合了有机和无机树脂的优点；通过高分子量润湿分散剂，降低了涂料粘度、提高了底材润湿性；特殊小分子结构，交联密度大，硬度高，耐磨性能优异。

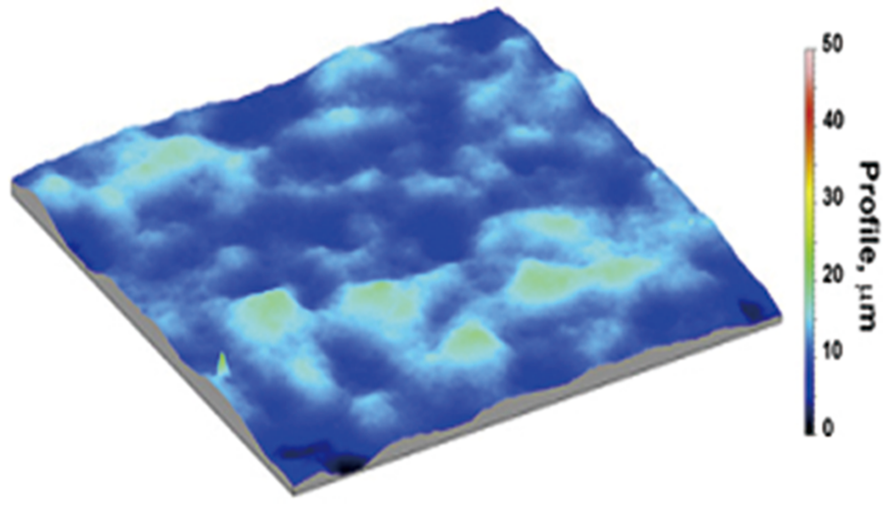
Combining the advantages of organic and inorganic resins with chelating groups. The coating viscosity is reduced and the wettability of the substrate is improved with high molecular weight wetting additive. High cross-linking density, high hardness and excellent wear resistance with special small molecular structure.

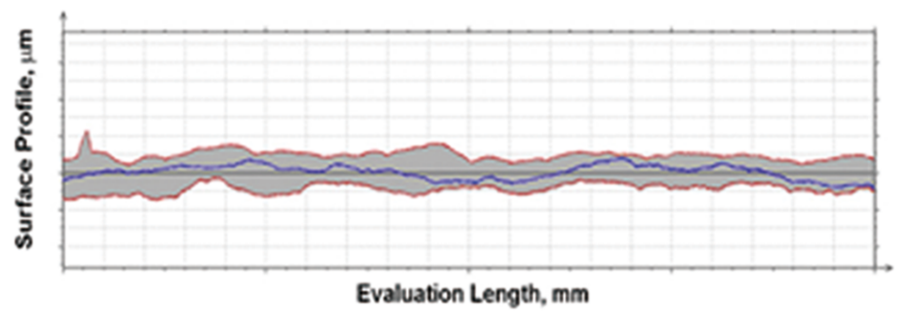
常规涂料
Original Paint





无溶剂涂料
DW ULV G50





特殊的小分子结构，无溶剂涂料对底材的润湿性强，涂膜外观好，涂膜平整、光滑、致密。
Excellent wetting on the substrate with Special small molecule structure. It has good appearance. The dry film is flat, smooth, and dense.

产品特点
Product Advantage

- **环保性能：优于水性涂料**
  Environmental Performance: better than waterborne coatings
  -体积固体96%，施工 VOCs 远低于水性涂料；
  High solid and lower VOCs than water-based coatings.
  -生产及涂装过程无废水产生；
  No wastewater during the production and application process.
  -符合《GB/T 38597-2020 低挥发性有机化合物含量涂料产品技术要求》中 VOCs 限量标准。
  Complies with GB/T 38597
  -高闪点，非易燃易爆品，仓储运输安全。
  High flash point.Non flammable materials. Safe storage and transportation.

项目 Item	单位 Unite	水性环氧涂料 Water-borne Paint	无溶剂涂料 DW ULV G50 Solvent Free
施工体积固体 SVR	%	40	96
施工 VOCs	g/L	50	58
单位体积固体的 VOCs	g	125	61
单位膜厚的 VOCs 排放	g/m^2	0.125	0.062

- **防腐性能：优于溶剂型涂料；**
  Corrosion Resistance: better than solvent based coatings
  -分子量小，交联密度大，涂膜的致密性及屏蔽性更强，防腐性能更好；
  Small molecular.High cross-linking density. Better anti-corrosion performance.
  -特殊的小分子结构，对底材的润湿性强；
  Special small molecule structure. Excellent wettability to substrate.
  -成膜物无溶剂残留，漆膜硬度高，耐磨损性好。
  No solvent residue.High hardness and excellent abrasion resistance.

项目 Item	单位 Unit	检测结果 Result	实验方法 Test Method
附着力 Adhesion	级 Class	1	GB/T 9286
	Mpa	6.8	GB/T 5210
柔韧性 Flexibility	mm	2	GB/T 6742
抗冲击性 Impact resistance	kg•cm	50	IICL
漆膜硬度 Hardness	--	H	GB 6739
耐盐雾性能 SST (1000h)	h	漆膜无剥落，无起泡、无锈蚀 No peal. No bubble. No rust.	GB/T 10834
耐盐水性能 SWT (1000h)	h	漆膜无剥落，无起泡、无锈蚀 No peal. No bubble. No rust.	GB/T 1771
耐酸性 Acid Resistance (5% H_2SO_4 480h)	h	漆膜无剥落，无起泡 No peal. No bubble.	GB/T 9274
耐碱性 Alkali Resistance (5% NaOH 480h)	h	漆膜无剥落，无起泡 No peal. No bubble.	GB/T 9274
耐溶剂汽油性 Gasoline Resistance (960h)	h	漆膜无剥落，无起泡 No peal. No bubble.	GB/T 9274



- 施工性能：等同于溶剂型涂料

  Application Performance: equivalent to solvent based coatings

-施工便利，常规喷涂设备施工；

Good application property with conventional spraying equipment.

-既可多次成膜也可一次成膜，减少涂装次数，施工效率高；

Can be application one or multiple times. Reduce the number of application times. Efficient application.

-涂膜常温固化干燥，便于船舶大规模涂装。

Can be dried at room temperature. Convenience application on ships.

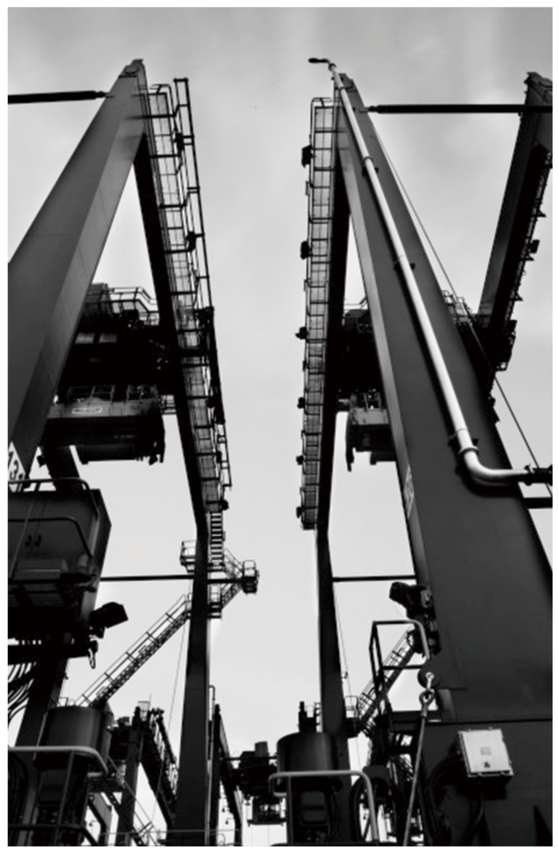
项目 Item	单位 Unit	施工参数 Application Parameter
可使用时间 Pot life	h	2
胶化时间 Gell Time	2	4
体积固体份 SVR	%	96
施工压力 Pressure	Mpa	18-25
枪嘴口径 Nozzle Tip	in	0.017-0.025
干膜厚度 DFT	μ	400
指触干燥 Surface Dry	h	4
半硬干燥 Dry to Touch	h	12



应用领域
Application Fields

船舶、海工、风电和港口机械
Marine，Offshore，Wind Power and Port Machine



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