



High efficiency Dispersant YRFC-11/12 (Viscosity Reducer / Leveling Agent / Anti-settling Agent)

Characteristic Description:

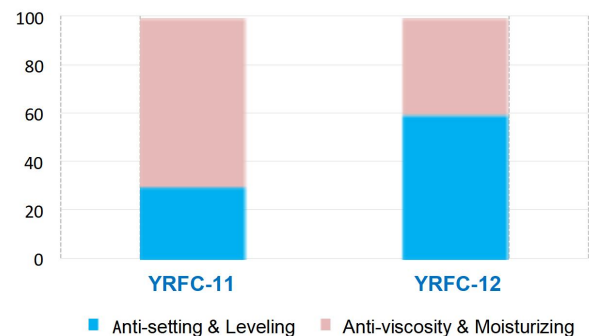
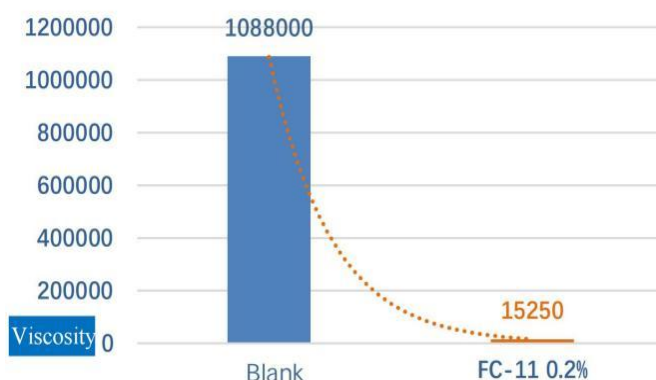
Model	Appearance	Colour (Fe-Co)	Density g/cm ³ (25°C)	Viscosity mPa.s (25°C)	Property
YRFC-11	Amber transparent liquid	≤ 10	0.935 ± 0.02	850 ± 200	Efficient dispersion and viscosity reducing agent, with excellent powder dispersion and viscosity reducing effect.
YRFC-12	Yellowish paste	---	0.973 ± 0.02	---	Anti settling, anti hardening, leveling, viscosity reducing. It is inclined to improve the anti settling and leveling properties.

Unique Performance:

YRFC-11/12 is an efficient anti settling dispersant designed for runways and silicon PU materials with powder fillers. The characteristic groups contained in its structure can enhance the charge repulsion between powders and the compatibility between materials of different polarities. With the addition of a very small amount, it can be dispersed and adsorbed on the surface of a large number of powder particles, effectively reducing the adsorption between powder particles, achieving the goal of reducing system viscosity, improving leveling, reducing scratches, and preventing the accumulation and solidification of powder fillers. The application characteristics of the product are as follows:

- **The effect of viscosity reduction is immediate.** The experiment shows that for the medium viscosity system (the viscosity is about 10000mPa.s), the viscosity can be reduced by 70% if only 0.1-0.2% of the system powder is added; For some very high viscosity systems (the viscosity is about several hundred thousand centipoises), the viscosity can even be reduced to 1/10 - 1/20 of the blank.
- **Prevent settlement and hardening.** Prevent the agglomeration, settlement, and hardening of material with powder fillers at the bottom of the bucket after long-term storage.
- **Effectively reduce surface defects such as bubbling, bulging and depression.** Significantly reduce the viscosity, improve the material fluidity, greatly improve the leveling during construction, reduce scratches, improve the wetness and filling of small holes on concave and convex substrates (such as cement foundation), and facilitate the timely discharge of air in the holes to reduce bubbles.
- **Reduce costs.** Benefit from the excellent viscosity reduction effect, the amount of filler can be increased to a certain extent to reduce the overall cost.
- **Functional refinement.** YRFC-11 is more inclined towards reducing viscosity and wetting, while YRFC-12 is more inclined towards anti settling and leveling, which can solve the problem of coarse particles and low mesh fillers being prone to settling and hardening at the bottom of the barrel. Both have excellent effects in single and dual component systems.

Viscosity reduction effect of YRFC-11 (Filler content:60%)



Functions Comparison of YRFC Series Additives



Application:

Suitable for solvent-free plastic track and silicone PU stadium materials.

YRFC-11 is an efficient dispersion and viscosity reducing agent, with excellent powder dispersion and viscosity reducing effect, recommended for high powder content single component silicon PU materials, runway materials, etc., without affecting the curing speed of the material.

YRFC-12 is an efficient anti settling and anti hardening agents, without increasing viscosity, have the characteristics of anti settling, leveling, and viscosity reducing. Compared with dispersed viscosity reducing agents, they are more inclined to improve their anti settling and leveling properties.

User's Guide:

Add it into the filler components while stirring, and cut them properly for even dispersion without special temperature control. The recommended dosage is 0.1-0.3% of the powder.

YRFC-12 has a melting temperature of about 70-80 °C and can be added at room temperature when used. It can be mixed with the material, heated, and stirred evenly.

Package & Storage:

25kg/200kg in HDPE drum

Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain. And pay attention to airtight storage.

Shelf Life:

The unopened shelf life is 24 months from the date of manufacture. After the shelf life, if the dispersion and anti sedimentation are not reduced, it can still be used as qualified products.

Notes: All recommendation and technical information (whether verbal, written or by way of product evaluations), including any suggested formulations contained herein is provided for information purpose only and does not constitute a legal contract as well as suitable for relating to the third party rights. The conditions of your use and application of our products, technical assistance and information are beyond our control. Therefore, no guaranty or warranty for your evaluation is made. Consequently the user assumes all risks in connection with the use and handling of this product based on our technical information and recommendations, final determination of suitability of this product is the sole responsibility of the user. (Version202301)