

TDS of Multi-functional Modular SS-07

Multi-functional modular SS-07 is another item powder coating material R&D by our own company, it is innovative and could be mastered rapidly and easily in production.

Description

It is energy conservation materials, environmental and safety. Non-toxic, no smell and free of heavy metals.

Application

It can be used in all powder coating system such as polyester resin/TGIC, polyester resin/Primid and polyester/epoxy resin powder coatings to provide high gloss, semi-gloss, art-type powder coating etc.

Dosage:

Purpose	Dosage(of formula total weight)	Remark
Solving lumping problem	1.5%	Premixed with other materials
Improve flow ability	1.8%	
Improve corner spraying effect	2-3%	

Formula Instruction:

Users could adjust the binder ratio of polyester resin and curing agents(TGIC/Primid/Epoxy Resin) according to requirement of powder coating quality.

Additive:

No need use benzoin,wax,SIO₂,depersing agent , anti-foaming agent and charge enhancing agent(before extrusion and after extrusion type).

Special Advantage in Primid powder coating System:

- 1.No yellowing, no accumulation in corners, no powdering falling, no sagging.
- 2.No pinholes even in 130-140µm.
- 3.Fallen Primid powder coating with SS-07 could be sprayed on work pieces

Functional Characteristics :

1. The powder coating is very loosing, spraying effect is even and uniform.
2. Good flow ability, stable gloss.
3. The powder coating could be used as tribo gun version powder coating(no need use tribo gun version polyester resin and tribo additive, no need use tribo gun).
4. No falling, fine powder coating is also easy to be sprayed.
5. No electric breakdown happened. one product multi-purpose.
6. It could improve coverage ability, lower materials' cost.
7. Improve fluidity in extrusion process, raise production capacity.
8. No paste in grinder and sieves.
9. Improve powder coating particles uniformity.
10. Extend machinery's life.

Notice:

The key Technical data sheet of multi-functional modular SS-07 is for reference only. We don't promise any guarantee and obligation, don't bear any responsibility of law and regulation because customers' application is out of our control when they use our materials.

Storage

Store in cool and dry place, keep away from fire and heat sources.

Shelf life

At least one year , if storage time is longer than one year , pls make a test to ensure its performance and property have no change.

Regulatory status

Multi-functional modular SS-07 complies with TSCA(USA), REACH (SVHC 205) ,Directive2011/65/EU(RoHS).

Package

Packaged in craft paper bag with polyethylene liner. Net weight 20Kg per bag.

Three reference formulas with SS-07 as follows:

Primid System Formula with SS-07(White and High Gloss Finish)			
NO.	Item	Reference Formula with SS-07 (g)	
1	Polyester resin(TGIC 93:7)(SJ4866)	55	50
2	HAA Curing agent(95:5)	2.8	2.6
3	TiO2 (R818)	20	18
4	Precipitated BASO ₄	18	25
5	Flow agent (588)	0.9	0.9
6	Levelling agent (701B)	0.7	0.7
7	Benzoin	0.1	0.1
8	Multi-functional modular (SS-07)	1.6	1.8
9	Permanent violet	0.003	0.003
	Total	99.103	99.103
Curing Condition	Temperature/Time	180°C/10-15min(panel temperature)	

****This formula only suitable for white and light colors.**

Notice:

The key Technical data sheet of multi-functional modular SS-07 is for reference only. We don't promise any guarantee and obligation, don't bear any responsibility of law and regulation because customers' application is out of our control when they use our materials.

TGIC System Formula with SS-07(White and High Gloss Finish)

NO.	Item	Reference Formula with SS-07 (g)			
1	Polyester resin(TGIC 93:7)(SJ4866)	55	50	45	40
2	TGIC	3.8	3.4	3.0	2.6
3	TiO ₂ (R818)	20	18	16	14
4	Precipitated BaSO ₄	18	25	32	39
5	Flow agent (588)	0.9	0.9	0.9	0.9
6	Levelling agent (701B)	0.7	0.7	0.7	0.7
7	Multi-functional modular (SS-07)	1.4	1.6	1.8	2
8	Permanent violet	0.003	0.003	0.003	0.003
	Total	99.803	99.603	99.403	99.203
Curing Condition	Temperature/Time	200°C/10-12min(panel temperature)			

TGIC System Formula with SS-07(Black and High Gloss Finish)

NO.	Item	Reference Formula with SS-07(g)			
1	Polyester resin(TGIC 93:7)(SJ4866)	55	50	45	40
2	TGIC	3.8	3.4	3	2.6
3	TiO ₂ (R818)	0.5	0.5	0.5	0.5
4	Precipitated BaSO ₄	36	41	46	51
5	Flow agent (588)	0.9	0.9	0.9	0.9
6	Levelling agent (701B)	0.7	0.7	0.7	0.7
7	Multi-functional modular (SS-07)	1.4	1.6	1.8	2
8	Carbon black	0.8	0.8	0.8	0.8
9	Iron oxide black	0.8	0.8	0.8	0.8
10	Iron oxide red	0.1	0.1	0.1	0.1
	Total	100	99.8	99.6	99.4
Curing Condition	Temperature/Time	200°C/10-12min(panel temperature)			

****SS-07 could help to promote the curing process, then we need less TGIC quantity to ensure good flow. According to different items polyester resin , we suggest reduce TGIC dosage by 0.4%~1% comparing to normal standard TGIC dosage in formula.**

Notice:

The key Technical data sheet of multi-functional modular SS-07 is for reference only. We don't promise any guarantee and obligation, don't bear any responsibility of law and regulation because customers' application is out of our control when they use our materials.