



Guangzhou ZEHM Functional Materials R&D Co. Ltd.

# Bensub 2999

Degassing Agent

Bensub 2999 is a high-performance degassing agent suitable both for interior and exterior powder coatings. It performs very good discoloration-resistance and has following advantages:

- Suitable for all systems
  - a) Modifier for surface properties
  - b) Well suited for PRIMID system with Bensub 2908
  - c) High suitability of Polyester/TGIC powder coating
- Eliminate pinholes, suitable for:
  - a) Porous substrate
  - b) Zinc alloy or hot-zinc substrate
  - c) Low cure system
- Exceptional flow aid and gloss promoter
- Effective ( dosage from 0.8-2.5% based on total powder )

## Typical Properties:

- Appearance : White powder
- Volatile Organic Compounds (VOCs) :  $\leq 3\%$  (200°C/10min.)
- Softening point, RING AND BALL : 95-115°C

## Application:

Pre-mix and Co-extrusion [One-Shot Method]

## Dosage :

0.8%-2% (total formula)

## Storage:

12months @27°C, Keep Dry

## Safety and Caution :

- General powder coating safety regulations can be adapted for ZEHM products

- Unless otherwise noted, ZEHM products never contain any heavy metal elements, easy-flammable or explosive materials
- Personal Protective Equipments [PPE] are required to prevent the powder from oral or breath adsorption and skin direct contact
- Any contaminated body parts should be suggested to a rapid wash-away. Serious cases should look for the doctor's treatment

Recommended powder coating formula of Bensub 2999 in Polyester/ TGIC system:

Formulation No.	1 <sup>#</sup>	2 <sup>#</sup>
DSM4900	550	-
DSM P865	-	560
TGIC	35	-
PRIMID XL552	-	29.5
Resiflow PV-88, Worlee	10	10
Benzoin	5	5
BaSO <sub>4</sub>	187	185
TiO <sub>2</sub>	188	186
Bensub 2999	25	12.5
Total	1000	1000
Bake Schedule	200°C/15min. (Object temperature)	
Gloss 60°[Gloss Units]		
Impact, [KG*cm]	+/-50	
Appearance	Smooth	

- Above formulas were illustrated only for reference. Please do trial first before batch order

## Note:

Bensub 2999 is a kind of high performance additive and should perform positive effect on powder coatings within the normal dosage range. Above technical data are only for reference. Please do trial before using this product. ZEHM will not be responsible for the loss caused by not properly using this product data sheet. The possibility of the better performance that Bensub 2999 may have is not excluded.

\* For more detail technical information, please contact our sales persons or send E-mail to: [zehm@gz-zehm.com](mailto:zehm@gz-zehm.com)