

Guide Formulations

2K Zero VOC Polyaspartic Floor Coating

Ref: Inz 2-PolyAspartics Clear - 036

Part A	Material	Supplier	Amount (g)
Polyaspartics Resin	Desmophen NH 1520	Bayer	26.00
Polyaspartics Resin	Desmophen NH 1420	Bayer	26.00
Flow & Levelling Agent	Dynaodadd F-1	Dynea A/S	1.00
Defoamer	BYK-066N	BYK	0.50
UV Absorber	Tinuvin 1130	BASF/Ciba	0.25
UV Stabiliser	Tinuvin 292	BASF/Ciba	0.25
Moisture Scavenger	Incozol 2 (8-10% Replacement of Polyaspartics Resin)	Incorez	4
			58

Part B	Material	Supplier	Parts by Weight
Polyisocyanate	Basonat HA 1000	BASF	42
Total			100

Manufacturing Instructions – Part A

- All the raw materials used in this formulation are moisture sensitive, so all the manufacturing must be performed under an inert atmosphere i.e. Nitrogen/Vacuum.
- To a clean dry enclosed vessel add Desmophen NH 1520 and Desmophen 1420
- Add Dynaodadd F-1 (Flow and Levelling), BYK -066N (Defoamer), Tinuvin 1130 and Tinuvin 292 in resin mixture and mix for 15 mins until homogenous

NOTE: ALL THE ABOVE COMPONENTS SHOULD BE STIRRED UNDER NITROGEN BLANKET.

- Finally mix PART A and PART B together until homogenous, the mixture then is ready for use.

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Properties

1) Physical Properties

Pot Life (mins)	60
% Solids	100
VOC (g/L)	0
Mixed S.G (g/lit)	1.07

2) Dry Film Properties

All the below properties are measured after 7 day at 20°C

Persoz Hardness (secs)	257
BK Surface dry time (hours)	2 1/2
BK Through dry time (hours)	6
Gloss (60°) – 7 day	92

Application Properties

This formulation can be applied by Brush, Roller and Spray application (Airless or Air Assisted).