



**Description**

Epotec YD 128 is an unmodified liquid epoxy resin with medium viscosity based on bisphenol-A and epichlorohydrin.

Epotec THW 4504 is modified amine based curing agent available about 60% solids in water. It offers capability to formulate V.O.C. free systems for confined areas as well as coatings and toppings for damp surfaces including green concrete. Epotec THW 4504 posses excellent water vapour permeability .The ability of Epotec THW 4504 to cure in thick section enables it to be formulate into high strength grouts, wear resistant concrete toppings and in ECC.

Epotec YD 128 / Epotec THW 4504 are designed especially for use in construction application such as flooring.

**Applications**

- Self leveling floors
- Trowelable floors and floor toppings
- Grouts
- ECC

**Typical properties\***

**Epotec YD 128**

Appearance	Visual	Clear .colourless to light yellow liquid
Colour	ASTM D 1544-04	0.2 G.
Epoxy Equivalent weight	ASTM D 1652-04	187 g/eq
Viscosity @25°C	ASTM D 2196-05	12,600 cP

**Epotec THW 4504**

Appearance	Visual	Pale yellow liquid
Colour	ASTM D 1544-04	6.0 G
Viscosity @25°C	ASTM D 2196-05	2,000 cP
Non-volatiles	By calculation	60 % NV
Amine value	DIN 16945	215 mgKOH/g

\* = Typical properties are indicated for information only

## Typical properties\*

### Epotec YD 128 / Epotec THW 4504

Resin : Hardener mixing ratio	pbw	100:110
**Pot life (150g mix)	TEC-AS-P-111	60 min
Thin film set time 25 °C		4 hr

\* = Typical properties are indicated for information only

\*\*=Epotec THW 4504:Epotec YD128: water 60g:54g:36g

## Guideline formulation

### Self leveling flooring

Sr. No.	RM	Qty. pbw
1.	Epotec THW 4504 <sup>1</sup>	33
2.	BYK 380N <sup>2</sup> BYK 012 <sup>2</sup> BYK 037 <sup>2</sup>	0.50 1.12 1.12
3.	TiO <sub>2</sub> Rutile CaCO <sub>3</sub> Silica flour M-10 <sup>3</sup>	8 57 57
4.	Water	41
5.	Epotec YD 128 <sup>1</sup>	30

<sup>1</sup> = Aditya Birla Chemicals, Thailand

<sup>2</sup> = BYK Chemie, Germany

<sup>3</sup> = Sibalco, Belgium

### Application Properties

Property	Test method	Unit	Value
Mixing ratio (resin:curing agent)	-	weight	100 : 110
Pigment : Binder ratio	-	weight	2.45 : 1
PVC	-	%	50
Solid content	-	wt%	38
Density	ASTM D1475	g/cc	1.597
Pot life @ 25°C	-	minutes	60
Surface Appearance	-	-	Smooth, egg shell finish

Hardness (Shore D) - 1 day - 7 days	ASTM D2240	-	60 75
Abrasion resistance (weight loss) (CS17, 500 g load, 1000 cycles)	ASTM D4060	mg / 1000 cycles	100.6
Water Vapour Transmission	ASTM D1653-93	g/m <sup>2</sup> .s	2.04E-03

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#### Packing

Epotec YD 128 and Epotec THW 4504 are packed and delivered in 200 lit drums, as a standard pack.  
Other packs are available on request.

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#### Storage

Epotec YD 128 and Epotec THW 4504 should be stored in original tightly closed container, in dry and warm conditions. Under these conditions, it has a storage life of at least one year from the date of manufacturing. In case of crystallization of Epotec YD 128 the product can be restored to its original condition by warming to 55-60°C while stirring. **It is advised not to allow the product to freeze.**

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#### Handling

Please refer to the MSDS of the individual products for more instructions on safe storage and handling of Epotec YD 128 and Epotec THW 4504.

#### Disclaimer

All recommendations for use of our products whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although, the information contained in this sheet is accurate, no liability can be accepted in respect of such information. We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control.

**For Additional Information, Please Contact:**

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