

Guide Formulations

2K Waterbased Epoxy Tile Adhesive/Tile Grout/ Thixotropic Filler

Ref: Amirez 148/270 - 050

Version 1 - 10/25

Part A	Material	Supplier	Parts by Weight
1. Curing Agent	Amirez 148/270	Incorez	100.00
2. Defoamer	BYK 5732	BYK	5.00
3. Diluent	Water	Local	110.00
4. Pigment	Tiona 595	Cristal Global	15.00
5. Filler	Filite 160	Omya	60.00
6. Filler	Quartz Powder M6	Sibelco	400.00
7. Filler	Quartz Sand (0.06-0.10) mm	Sibelco	310.00
			1000.00

Part B	Material	Supplier	Parts by Weight
8. Epoxy Resin	Epikote 828 LVEL	Hexion	95.00
9. Reactive Diluent	Epodil 748	Evonik	7.00
10. Defoamer	BYK 057	BYK	1.40
11. Thixotrope	Bentone SD-2	Elementis	1.00
12. Pigment	Bayferrox 318	Lanxess	5.00
13. Cement	Portland Cement	Local	125.60
			235.00
Total			1235.00

Manufacturing Instructions

Manufacturing Instructions – Part A

- Charge components 1 and 2 and stir homogeneous at low shear
- Once the mixture is homogeneous add component 3
- Slowly add components 4-6 while increasing the speed to 10-20m/s
- Grind with high-speed disperser at approx. 10-20m/s for 15 minutes
- Slowly add component 7 whilst adding part of the water if required and mix for 10 minutes

Manufacturing Instructions – Part B

- Add component 9 to 8 and mix for 5 minutes
- Slowly add component 10 and 11 and mix for 5 minutes after each
- Add component 12 and 13 and mix for 15 minutes

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- Finally mix PART A and PART B under low shear mechanical mixing for 2-3 minutes until the system is homogeneous.
- The formulated system is now ready to apply.

Properties

Mixing Ratio A : B (by weight)	4.25: 1
1 day Hardness @20°C 50% RH (Shore D)	59.2
2-day Hardness @20°C 50% RH (Shore D)	67.4
Working Time (min)	25-30
Density (g/mL)	1.68
Tile Adhesion (EN14891) (N/mm²)	
- to Dry Concrete (Initial)	1.6
- Water Contact	1.5
- Heat Age	1.4
- Freeze Thaw	1.5
Compressive Strength (N/mm²)	
- 1 day	11.6
- 7 days	21.5
- 28 days	32.1
Flexural Strength (N/mm²)	
- 1 day	2.91
- 7 days	6.36
- 28 days	8.97