

# Technical Bulletin

# Amirez 148/270



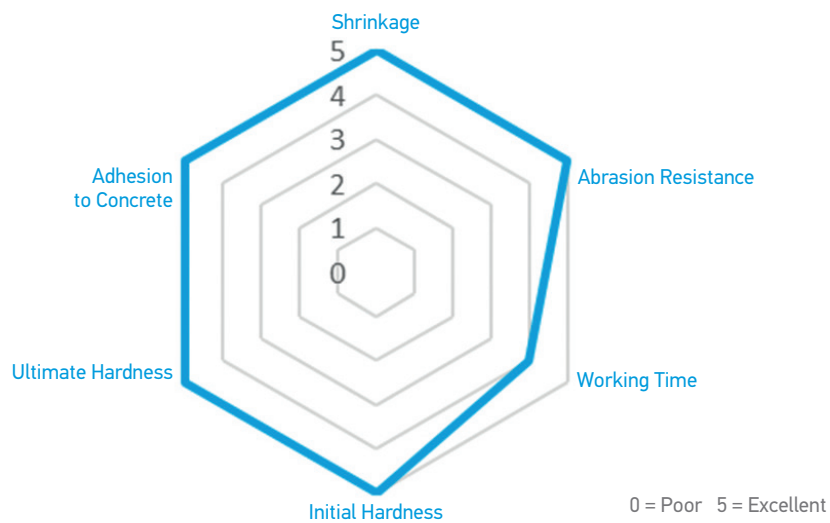
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## Description

Amirez 148/270 is a water-soluble polyamine curing agent for liquid epoxy resins. It is specifically designed for use in high build systems of 1-3mm film thickness, particularly for self-levelling systems. This curing agent provides excellent chemical resistance and adhesion to concrete, good abrasion resistance and low volume shrinkage.

## General Properties

Amirez 148/270 + Epikote 828 LEVEL



Property	Unit	Self-Levelling Coating	Pass/Fail
1 day Hardness @20°C 50% RH	Shore D	55	Pass
7 day Hardness @20°C 50% RH	Shore D	66	Pass
1 day Hardness @10°C	Shore D	55	Pass
Adhesion			
- to Dry Concrete	MPa	6.7	Pass
- to Damp/Wet Concrete	MPa	6.3	Pass
Abrasion Resistance	mg loss	168	Pass
Working Time	min	30 - 45	Pass
Volume Shrinkage	%	< 1	Pass

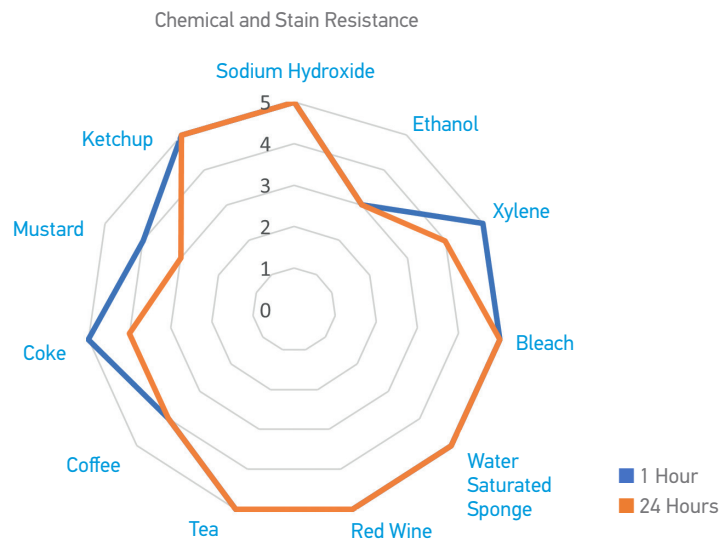
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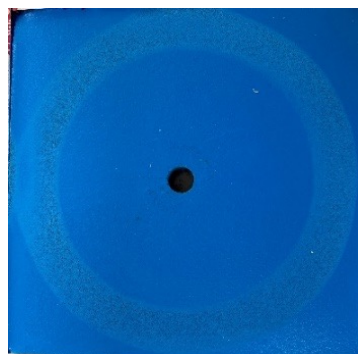
### Chemical Resistance

Test Material	Time / Conditions @RT	Sodium Hydroxide (5%-10%)	Ethanol	Xylene	Bleach	Water Saturated Sponge	Red Wine	Tea	Coffee	Coke	Mustard	Ketchup
Self-Levelling Coat	1 hour	P	F	P	P	P	P	P	Slight Stain	P	Slight Stain	P
	24 hours	P	F	Slight Stain	P	P	P	P	Slight Stain	Slight Stain	F	P

P= Pass F= Fail



### Abrasion Resistance



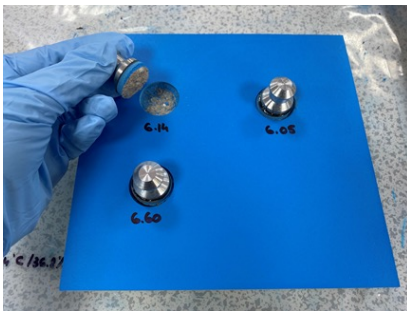
Abrasion Resistance Test after 1 day @ RT

Test	Method/Standard	Time Period/Unit	Self Levelling Coat
Abrasion Resistance Self -levelling (CS-17) (mg/1000 cycles)	BS EN ISO 7784-2	1 day @ RT/ % loss	0.13%
		1 day @ RT/ mg loss	168

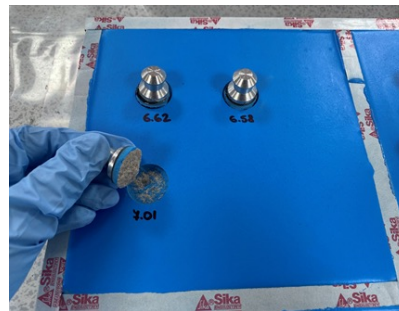
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### Adhesion Test



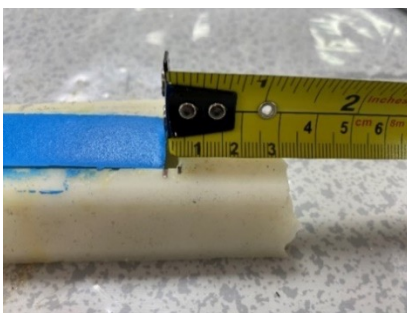
Adhesion Test after water immersion



Adhesion Test on dry concrete

Test	Method/Standard	Time Period/ Conditions @RT		Self -Levelling Coating (MPa)	Pass/Fail (Cohesive Failure to Concrete)
Pull-off Adhesion (MPa)	BS EN 1542	Dry Concrete with Primer	7 days	5.70	Pass
		Dry Concrete with No Primer	7 days	6.74	Pass
		Wet Concrete with Primer	7 days	6.26	Pass

### Shrinkage Test



Amirez 148/270 Shrinkage Test

Test	Time Period/ Conditions @RT	Self -Levelling Coating				
		Initial length (cm)	Length after 7 days (cm)	Length after 28 days (cm)	Difference (cm)	Shrinkage (%)
Shrinkage Bar Test	Tested after 7 days and 28 days @ RT	43.4	43.1	43.1	0.3	0.69%

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## Water Vapour Transmission

Amine Curing Agent	sd-value (m)	EN1504-2 Classification
Amirez 148/270	12.2	Class II (permeable to water)

Class I:  $sd < 5$  m - Class II:  $5 \text{ m} \leq sd \leq 50$  m - Class III:  $sd > 50$  m