

TWO COMPONENT EPOXY ADHESIVE CEB 001

Resin

AS 7

Hardener

AW 6

Mixing ratio by weight

100:100

Application:

Structural adhesive for heterogeneous materials: brickwork, marble, granite, wood, aluminum. Fastening. Sealing. Smoothing.

Processing:

Manual mixing. Mechanical mixing with automatic mixing/dispensing machines equipped with pressure plate. Spatula application. Application with dispensing nozzle.

Description:

Two component filled epoxy system. Thixotropic. Solvent free. Minimum shrinkage on thin thickness. The application is possible also on vertical surfaces, being the system a paste. Medium reactivity. Good resistance to yellowing. Suitable for operating temperatures from -25°C to +80°C when it applied in a maximum thickness of 1mm.

SYSTEM SPECIFICATIONS

Resin					
Viscosity at:	25°C	IO-10-50 (EN13702-2)	mPas	300.000	600.000
Hardener					
Viscosity at:	25°C	IO-10-50 (EN13702-2)	mPas	400.000	650.000
Density at:	25°C	IO-10-51 (ASTM D 1475)	g/ml	1,64	1,68

TYPICAL SYSTEM CHARACTERISTICS

Processing Data					
Resin Colour				White	
Hardener Colour				Beige	
Mixing ratio by weight		for 100 g resin	g	100:100	
Mixing ratio by volume		for 100 ml resin	ml	100:100	
Density	25°C Resin	IO-10-51 (ASTM D 1475)	g/ml	1,86	1,90
Pot life	25°C (50mm;200ml)	IO-10-53 (*)	Min.	25	35
Exothermic peak	25°C (50mm;200ml)	IO-10-53 (*)	°C	55	75
Initial mixture viscosity at:	25°C	IO-10-50 (EN13702-2)	mPas	480.000	720.000
Gel time	25°C (1 mm)	IO-10-88 (ASTM D5895-03)	min.	60	100
Setting time	25°C (0,1 mm)	(*)	h	2,5 - 3,5	



TYPICAL CURED SYSTEM PROPERTIES

Properties determined on specimens cured: 24 h TA + 15 h 60°C

Machinability				Good	
Density	25°C	IO-10-54 (ASTM D 792)	g/ml	1,78	1,82
Hardness	25°C	IO-10-58 (ASTM D 2240)	Shore D/15	87	91
Glass transition (Tg)	15h 15°C	IO-10-69 (ASTM D 3418)	°C	40	46
	1gg/day RT		°C	47	53
	7gg/days RT		°C	52	58
Water absorption	(24h RT)	IO-10-70 (ASTM D 570)	%	0,05	0,10
Water absorption	(2h 100°C)	IO-10-70 (ASTM D 570)	%	0,25	0,35
Minimum operating temperature				15	
Adhesion to:	Granite			Excellent	
	Marble			Excellent	
	Stone			Excellent	
	Iron (primer treated)			Good	
	Wood			Excellent	
Shear strength by tension:	Aluminium (48h TA)	IO-10-80 (ASTM D 1002)	MPa	11	15
	Inox steel AISI 316 (48h TA)		MPa	16	20

IO-00-00 = Our test method. The correspondent international method is indicated whenever possible.
 nd = not determined na = not applicable RT = TA = laboratory room temperature (23±2°C)
 Conversion units: 1 mPas = 1 cPs 1MN/m2 = 10 kg/cm2 = 1 MPa
 (*) for larger quantities pot life is shorter and exothermic peak increases (**) the brackets mean optionality
 (***) The maximum operating temperature is given on the basis of laboratory information available being it function of the curing conditions used and of the type of coupled materials. For further possible information see post-curing paragraph.

Instructions:

The surfaces must be clean and dry. Generally a mechanical abrasion or sanding followed by degreasing with solvent (ex. acetone) is sufficient. Add the appropriate quantity of hardener to the resin, mix carefully. Use slow mixing mixer or mix by hand with a spatula. The final cleaning of the equipment can be carried out with normal solvent such as acetone, nitro, etc.

Curing / Postcuring:

Normally the post-curing is not necessary.

Storage:

Epoxy resins and their hardeners can be stored for two years in the original sealed containers stored in a cool, dry place. The hardeners are moisture sensitive therefore it is good practice to close the vessel immediately after each use.

Handling precautions:

Refer to the safety data sheet and comply with regulations relating to industrial health and waste disposal.

Emission date: October 2009
 Revision n° 02 November 2013



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Last Revised: 02/15_Rev.0