

Huntsman Araldite® Epoxy AY133 / HY133LP Epoxy + Filler 133C

Epoxy Based Construction Bonding Agent / Grout / Repair Mortar

DATA SHEET

Application Concrete Repairing
Bedding material for bridge bearings
Grout for machine foundations and rail track bolts
Anchoring grout for steel re-bars and pretesting cables in concrete and rock
Flooring material

Feature and Benefits Three-components, solvent-free, Room Temperature Curing Epoxy System
High mechanical strength
Excellent adhesion to a wide range of substrate, including metal, ceramics, concrete, stone, etc.
Outstanding resistance against water and chemicals

Typical Product Data	AY133	HY133LP	133C
Appearance	Colourless Liquid	Yellow Liquid	Sandy Colour
Density 25 °C	1.14 g/cc	0.96 g/cc	approx. 1.6 g/cc
Packaging Standard Unit	25kg	10kg	8kg
Packaging Small Unit	10kg	4kg	8kg

Mixing Ratio (part by weight)	AY1333	HY133LP	130C
APPLICATION			
Primer, Bonding of New to Old Concrete	5pbw	2pbw	0
Grout, Anchorage	5pbw	2pbw	16pbw
Repair mortar & Bedding Material	5pbw	2pbw	40pbw

Preparation of substrate Surface must be sound, free of loose particles, dust, oil and grease.

Application of Primer Stir AY133 Resin and HY133LP Hardener respectively.
Weight the AY133 Epoxy and HY133 LP Hardener in proper mix ratio (see table).
Empty AY133 and HY133LP into a mixing pot.
Mix them thoroughly with a spatula to obtain a uniform light pale yellow color and appearance (a AY/HY133LP blinder is then formed).
Brush the AY/HY133LP blinder onto the repairing and bedding surfaces.

Application of Grout and Mortar Add 133C filler into the AY133/HY133LP blinder and mix thoroughly to form grout or mortar as per the following suggested formulations
Place the AY/HY133LP/C grout or mortar while the primer is still tacky.
Recoat with additional AY133/HY133LP primer, if the coating becomes loses tackiness.
Steel surfaces should be blast cleaned

Application of New to Old Concrete Place the new concrete while the primer is still tacky.
Recoat with additional AY133/HY133LP primer, if the coating becomes loses tackiness.

Gel Time for AY133/HY133LP blinder	Weight / Temperature	Gel Time
	100g/ 25 °C	approx 60-80 minutes

Min. Curing Time	Min. Curing Time 25 °C	Reach 80% of full cure Lap Shear Strength (LSS, steel/steel)	about 2 days
	Full Cure Time 25 °C	Reach ultimate Lap Shear Strength (LSS, steel/steel)	about 7 days

Filler 133C Filler 133C is made from highly pure, washed, oven dried, graded quartz. Store the Filler 133C in its original packaging in a dry area.

Distribution, mesh size	%
710	1
425	10
250	38
106	30
75	5
45	9
<45	7