

## TECHNICAL DATA SHEET

## HPR *High performance resins*

**Description:** HL 120 ASX 10 is a blend of unsaturated polyester resins, dissolved in solvents .  
The resin HL 120 ASX 10 doesn't contains catalysis indicator; doesn't contains any kind of waxes or paraffine and does not therefore pose delaminating problems.

**Main fields of application:** HL 120 ASX 10 has been developed for casting and HLU/SU applications, at direct contact with polystyrene foam.

**Advantages:** The special chemical composition of the resin HL 120 ASX 10 guarantee a good compatibility with mineral fillers. The low exothermic peak and the short curing time allow to obtain a good polymerization degree in a short time, without the occurrence of overheating harmful for the polystyrene. The resin HL 120 ASX 10 has, also, a very low styrene content, respect the traditional resins, and this aspect allows to use the resin in direct contact with polystyrene foams, without danger of chemical aggression. These characteristics make the resin HL 120 ASX 10 a excellent protective for polystyrene foam, for example in the construction of models.

### Chemical and physics characteristics of liquid resin

Characteristic	Range	Unit	Method
Aspect(****)	Liquid limp Pink		
Viscosity @25°C (*)	700 ÷ 1000	mPa-s	I.O. 368
Gel time @25°C(***)	6 ÷ 10	Minutes	I.O. 1000
Exothermic peak	135 ÷ 155	°C	I.O. 1000
Curing time	6 ÷ 10	Minutes	I.O. 1000
Styrene content(****)	12 ÷ 14,5	%	I.O. 349
Water content(****)	Max 0,15	%	I.O. 360

(\*) Brookfield RVF Spindle#2@20rpm

(\*\*\*) Catalysis conditions: 100g resin + 1,5 g MEKP 50

(LUPEROX K 1)

(\*\*\*\*) Values not reported in COA

### Use

We suggest to use the resin at a temperature of 25°C.

### Instructions before use

The resin must be conditioned at 25°C minimum, before use, to obtain a good catalysis when MEKP is used as catalyst. Shake well before use.

### Storage instructions

The resin must be stored in original containers, sealed and not damaged, in dry place and at a temperature between 5°C and 25°C.

The storage stability decrease at high temperature and the properties may change during the storage. The shelf life of the unsaturated polyester resins may decrease when the product is exposed to sun light. Store in not transparent containers.

### Properties of liquid resin – Typical values

Stability at 65°C	Min. 6	Days	I.O. 375
Storage stability	Min. 6	Months	

### Company informations

SIRCA S.p.A. has a quality system certified by DNV according to standard UNI EN ISO 9001/2008.

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*Le informazioni contenute in questo foglio informativo sono basate su dati di laboratorio e sulla nostra esperienza. I tempi di gelo e le proprietà reologiche possono variare a causa della natura reattiva dei materiali. Riteniamo che queste informazioni siano attendibili, ma non possiamo garantire la loro applicabilità nel vostro processo. Non ci assumiamo alcuna responsabilità per eventi che possano verificarsi per usi impropri del prodotto stesso. L'utilizzatore, accettando i prodotti in essa descritti, accetta la responsabilità di testare esaurientemente qualsiasi applicazione prima di iniziare la produzione. Le nostre raccomandazioni non devono essere recepite come istigazione a violare alcun brevetto o legge, codice di sicurezza o norma assicurativa.*