



ENDURANCE 3454 FAST CAST

(Fast Cast Polyol A)

TECHNICAL DATASHEET

Rev: 12/24

DESCRIPTION:

Endurance 3454 (Fast Cast) is the A component of a two-part cold cure polyurethane chemical system which, when reacted with the suggested B component in accordance with these instructions, produces a solid, rigid polymer suitable for many moulded parts. Pure Cast Polyurethane System.

Endurance 3454 is based on polyether polyols and is catalysed with a none organo-metallic compound (mercury Free) to cure at room temperature. The level of catalysis can be varied to suit individual needs.

TYPICAL PROPERTIES:

Polyol:

Appearance	:	Cloudy liquid
Viscosity (mPas) @ 25°C	:	900 ± 50
Specific Gravity @ 25°C	:	1.06 ± .02
OH Value (mg KOH/g)	:	305 ± 5
Acid Value (mg KOH/g)	:	0.06
Water Content (%)	:	<0.05

Iso: Endurance Fast Cast B 9020-1

Recommended Mixing Ratio: (by mass) : ENDURANCE FAST CAST B 9020-1:
100 : 100 (1:1)

Reaction Profile @ 25°C:

Gel Time (min)	:	3-5
Final Hardness (°D)	:	75 - 85
Final Density (g/l)	:	1100
Shrinkage (%)	:	0.75 – 1.00

STORAGE RECOMMENDATIONS:

Components need to be well stirred before mixing together. Components should be at 25°C when mixing for best results. It is preferable to mix the components together using an impeller attached to an electric drill, as good mixing is essential to obtain the desired physical properties.

Under recommended storage conditions (20 – 25°C) and in properly sealed containers, i.e. drums, cans etc., the storage life of Endurance 3454 is 6 months.

HEALTH AND SAFETY ADVICE:

Under normal conditions of use and application of good industrial housekeeping / hygiene this product does not present a significant health hazard. Should the material be splashed on the skin, it should be removed with copious irrigation with clean water followed by washing with warm water and soap. Following eye contamination and copious irrigation with clean water to remove the material from the eyes, the person should be medically examined. Following ingestion, medical advice should be sought.

Also refer to the attached Material Safety Datasheet (MSDS) for handling isocyanates.