



ENDURANCE 6559 **(Pure-Flex 70 & 90 Blend A)** **TECHNICAL DATASHEET**

Rev: 12/24

DESCRIPTION:

Endurance 6559 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, flexible polymer suitable for many moulded parts. All Polyurethane take 24 hours to be fully cured.

Endurance 6559 is based on polyether polyols and is catalysed 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	:	800 - 900
Specific Gravity @ 25°C	:	1.04 ± .02
OH Value (mg KOH/g)	:	162 ± 15
Acid Value (mg KOH/g)	:	0.06
Water Content (%)	:	<0.10

Iso: Endurance 9020 70 – 80 A Shore
 Endurance 9040 90 – 95 A Shore
 (Please refer to attached Datasheet)

Recommended Mixing Ratio: A : B : 2.4 : 1 (70 A – Endurance 9020)
 (by mass) : 2 : 1 (90 A – Endurance 9040)

Reaction Profile @ 25°C:

Gel Time (Minutes)	:	2.5 – 3.0
Final Hardness (°A)	:	70-80 (90-95)
Final Density (g/l)	:	1040
Shrinkage (%)	:	0.75 – 1.00

STORAGE RECOMMENDATIONS:

Components need to be well stirred before mixing them 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 6559 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.