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AH45

POLYURETHANE CURATIVE

TECHNICAL DATASHEET

AH45 is a liquid aromatic diamine polyurethane curative. At similar hardness, these properties compare favourably with other diamine curatives.

AH45 curative is convenient to use because it is a liquid at room temperature and is processed at room temperature.

Product Specification

Specific Gravity at 25°C	1.1 – 1.2
Viscosity at 25°C (cps)	300 - 600
Colour	Amber

Processing

AH45 is a low viscosity liquid that is ready for immediate use. Loading can be accomplished with simple hand pumps or gravity feed. Dry nitrogen should be used to blanket curative tanks.

% Theory

Selection of 95% theory is generally recommended. Lowering it to 85% theory will improve compression set and raise 300% modulus (tensile). Increasing to 105% theory will enhance tear strength and elongation.

Mix Ratio

The following equation calculates the amount of **AH45** required for 100 parts (by weight) of prepolymer.

$$\frac{\%NCO \times 2.63 \times \%Theory}{100} = \text{AH45 parts per hundred}$$

%Theory is expressed as a decimal, i.e. 95% Theory is 0.95 for the calculation.



This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Mould temperature and Post Cure

Mould temperature is generally higher than mix temperature. Moulds should be preheated between to 100°C and maintained at that temperature during cure. Demould time will vary with prepolymer and part size.

The recommended post cure conditions for TDI prepolymers are 16 hours at 100°C.

Storage, Handling and Safety

AH45 is stored in sealed containers and protected from moisture and oxidation by dry nitrogen. Although the product is not particularly hygroscopic, containers should not be left open to the atmosphere. Chemical stability is excellent under normal conditions, but storage in areas of excess heat and/or high humidity should be avoided. Flush an opened container with dry nitrogen before resealing.

In the event of a spill, contain with dykes or absorbents to prevent entry into sewers or streams. Small spills can be taken up with dry chemical absorbent. Refer to MSDS for further information.

Refer to material safety datasheet for personnel protective equipment and first aid treatment.