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# HARDENER

## HP 150, HP 157, HP 158, HI 362

## H 22, H 45, H 92

### HARDENING AGENT FOR SOLVENT-FREE EPOXY SYSTEMS

#### INDURENTE HP 150

Hardening agent for modified cycle-aliphatic amine compound-based epoxy resins.  
Minimum hardening temperature = + 10 °C.

HP 150  
Pot-life at +20 °C = 35'- 40' (test on 150 g).

Viscosity at 25 °C	30 – 90 cP
Density at 25 °C	1.03
H+	90
Amino no.	325 – 350 mgKOH/g
Gardner	<2
Use ratio	100 + 45

#### INDURENTE HP 157

Hardening agent for cycle-aliphatic amino compound-based epoxy resins (greater light-fastness). For coverings which are occasionally in contact with food.  
Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 50'-55' (test on 150 g).

Viscosity at 25 °C	300 – 600 cP
Density at 25 °C	1.03 g/cm <sup>3</sup>
H+	114
Amino no.	265 – 295 mg KOH/g
Gardner	2
Use ratio	100 + 60

## INDURENTE HP 158

Hardening agent for cycle-aliphatic amino compound-based epoxy resins, for low yellowing transparent coatings, together with RI 303.

Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 40'- 45' (test on 150 g).

Viscosity at 25 °C	500 cP
Density at 25 °C	1.02 g/cm <sup>3</sup>
H+	105
Amino no.	295 ± 15 mg KOH/g
Gardner	≤ 2
Use ratio	100 + 60

## INDURENTE HI 362

Injection and grouting epoxy resin hardening agent.

Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 35'- 40' (test on 150 g).

Viscosity at 25 °C	115 – 150 cP
Density at 25 °C	1.03 g/cm <sup>3</sup>
H+	49 g/eq
Amino no.	680 – 720 mgKOH/g
Gardner	> 5
Use ratio	100 + 25

## INDURENTE H 22

Hardening agent for self-levelling epoxy systems.

Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 30'-35' (test on 150 g).

Viscosity at 25 °C	300 - 550 cP
Density at 25 °C	1.06 g/cm <sup>3</sup>
H+	95
Amino no.	350 - 450 mg KOH/g
Gardner	< 6
Use ratio	100 + 50

## INDURENTE H 45

Hardening agent for high adhesion epoxy resins (poly-amino amide compound).

Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 55'-60' (test on 150 g).

Viscosity at 25 °C	1000 - 2000 cP
Density at 25 °C	1.01 g/cm <sup>3</sup>
H+	115
Amino no.	250 - 290 mg KOH/g
Gardner	≤ 10
Use ratio	100 + 60

## INDURENTE H 92

Fast hardening agent for epoxy resins.

Minimum hardening temperature = + 10 °C.

Pot-life at +20°C = 5 min (test on 150 g).

Viscosity at 25 °C	10 - 20 cP
Density at 25 °C	0.93 g/cm <sup>3</sup>
H+	55 g/eq
Amino no.	575 - 605 mg KOH/g
Gardner	≤ 2
Use ratio	100 + 30

## How to use

Pour the hardening agent in the resin and blend at slow speed for 3' – 5' using drill with helix/spiral to reduce air inlet as much as possible; during this operation, scrape also the bottom and the sides of the bucket.

Three essential rules are valid for all bi-component systems: weigh well, carefully mix bottom and walls, observe times of use.

## Packaging and storage

Available in cans as per amount shown in the table below:

HP 150	2.25 kg – 4.50 kg – 9.00 kg – 25.00 kg
HP 157	3.00 kg – 6.00 kg – 12.00 kg – 25.00 kg
HP 158	3.00 kg – 6.00 kg – 12.00 kg – 25.00 kg
HI 362	1.25 kg – 2.50 kg – 5.00 kg – 25.00 kg
H 22	5.00 kg – 25.00 kg
H 45	3.00 kg – 6.00 kg – 15.00 kg – 25.00 kg
H 92	10.00 kg – 25.00 kg

Hardening agents remain unaltered for at least 18 months if stored in a dry and sheltered place at a temperature between +10°C and +30°C in their original sealed containers.

## Cleaning of tools and health precautions

To clean tools use solvents such as RESISOLV 111, RESISOLV 196 or alcohol.

Epoxy resins and hardening agents may cause irritations: please avoid any contact with the skin and especially with the eyes and ensure proper ventilation during use.

Wear gloves, protective suit, goggles or protective visor. People who have to work with epoxy resins for long periods are advised to use protective creams.

In case of contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.

In case of contact with eyes or mucosa, do not use alcohol. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

## Do not rinse with solvents.

*The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.*