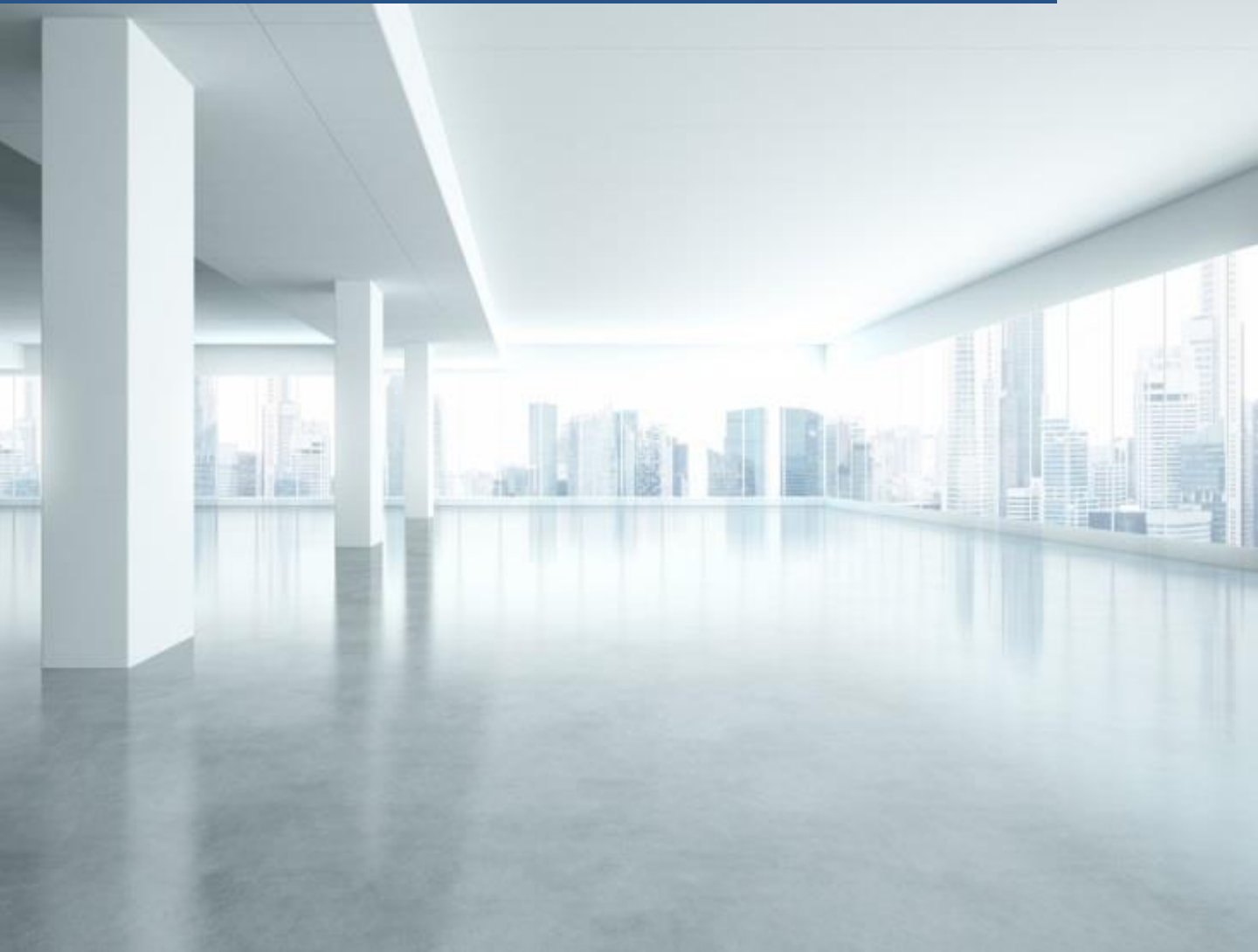


Innovative Epoxy Curing Agent

MXDA

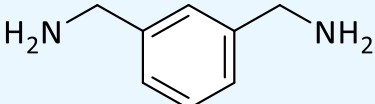
Epoxy Hardener Raw Material



MXDA Advantages

- **Excellent Chemical Resistance**
- **Cost saving** through Material Reduction
- **Fast Curing** even at **Low Temperature**
- **Low Viscosity** (Easy Handling)

Structures and Property

	MXDA (MGC) 	Typical Hardener
Molecular Weight	136.1	170.3
Amine Value	824 mgKOH	659 mgKOH
AHEW / phr	34.0 / 18.3 g (Cost Saving)	42.6 / 22.9 g
Freezing Point	14.1 °C	10 °C
Viscosity (25°C)	6.8 mPa·s	18 mPa·s



Typical Applications



MXDA shows excellent **Chemical Resistance** therefore is widely used in these applications ...



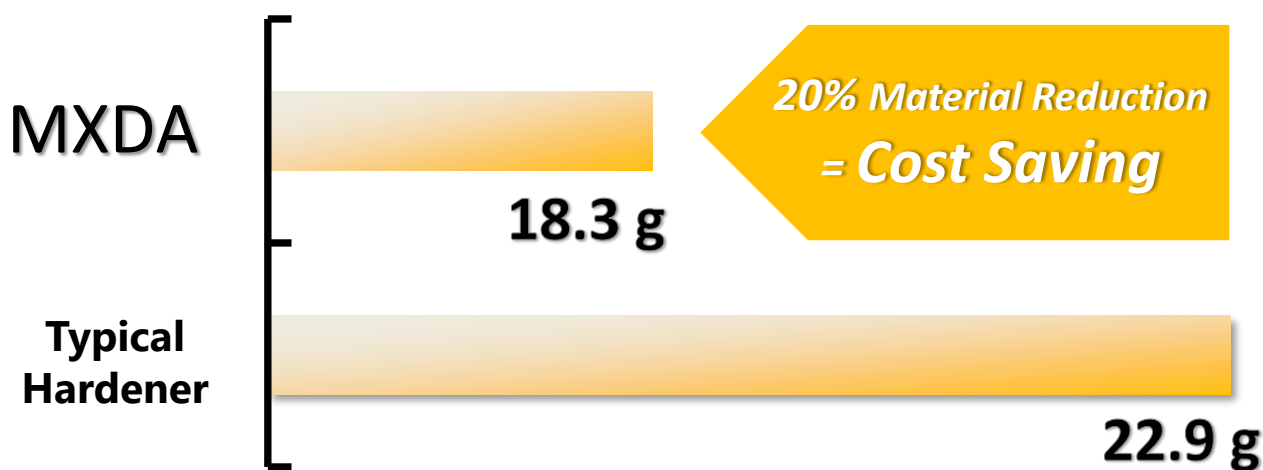
Excellent Chemical Resistances

Hardener	10wt% Sulfuric Acid	10wt% Acetic Acid	Toluene	5wt% Salt Spray (35°C 4 weeks)
MXDA Adduct	★★★★★ Excellent	★★★ Fair	★★★★★ Excellent	★★★★★ Excellent
Typical Hardener	★★★★★ Excellent	★ Poor	★★★ Fair	★ Poor

Epoxy Resin ; Bis-A Type (JER828)
Curing Condition 1week at 23°C

Cost Savings: *Lower AHEW*

Lower AHEW means less material... which equals
20% Cost Saving



Phr (Added Weight in 100 g Standard Epoxy Resin)

Epoxy Resin: BisphenolA Type(jER828)

Contact Information

www.aromatics.mgc.co.jp



Japan

Mitsubishi Gas Chemical Co., Inc.

Phone: +81-3-3283-4754

E-Mail: mxda@mgc.co.jp

China

Shanghai Ryoyo Trading Co., Ltd.

Phone: +86-21-5228-0585

E-Mail: contact@ryoyotrading.com

Europe

Mitsubishi Gas Chemical Europe GmbH

Phone: +49-211-363 080

E-Mail: contact@mgc-europe.de

USA

Mitsubishi Gas Chemical America, Inc.

Phone: +1-212-687-9030

E-Mail: contact@mgc-a.com

Singapore

Mitsubishi Gas Chemical Singapore Pte. Ltd.

Phone: +65-6224-0059

E-Mail: contact@mgcs.com.sg

Thailand

MGC Trading Thailand Ltd.

Phone: +66-2-670-3417

E-Mail: contact@mgc.co.th