

Advanced Materials**XD 4558 / Ren[®] HY 2404**

GELCOAT RESIN
 FILLED EPOXY SYSTEM, ABRASION RESISTANT

KEY PROPERTIES

- Easy to apply with brush or spatula, or by pouring
- Easy to use
- Covers sharp edges
- Cures rapidly at room temperature
- Outstanding mechanical strength
- Very hard, abrasion-resistant surfaces
- Very strong edges

APPLICATIONS

- Foundry patterns
- Copy-milling models
- Foaming and concrete-casting moulds
- Tools and tooling aids

PRODUCT SPECIFICATIONS

Property	Unit	XD 4558	Ren [®] HY 2404
Appearance Colour	visual	medium-viscosity liquid blue	transparent liquid yellow
Viscosity at 25°C	mPa s	25,000 - 65,000**	3,400 -5,000**
Density	g/cm ³	1.90 - 2.00	1.05 - 1.10

** Specified data are on a regular basis analysed. Data which is described in this document as 'typical' is not analysed on a regular basis and is given for information purpose only. Data values are not guaranteed or warranted unless if specifically mentioned.

TYPICAL SYSTEM DATA**PROCESSING**

Mix ratio	Parts by weight
XD 4558	100
Ren [®] HY 2404	10

Mix the two components thoroughly in the ratio indicated.
 Apply in thin layers with a brush or spatula, wait until gelcoat has gelled, but ensure that it is still slightly tacky before proceeding.
 Post-curing will improve final properties.

**TYPICAL
PROPERTIES**

Resin/Hardener mix:	Volume	Unit	XD 4558 Ren[®] HY 2404
Appearance			slightly thixotropic
Pot life at 25°C	250 ml	min	25-30
Demoulding time		h	12 – 16

After cure: 7 days at RT or 14 hours at 40 °C

Density	ISO 1183	g/cm ³	1.8 - 1.9
Hardness	ISO 868	Shore D	85 - 90
Deflection temperature	ISO 75	°C	70 - 75
Abrasion	Taber	mg/100u	8-10

STORAGE

Provided that XD 4558 and Ren[®] HY 2404 are stored in a dry place in their original, properly closed containers at the storage temperatures mentioned in the MSDS they will have the shelf lives indicated on the labels.

Partly emptied containers should be closed immediately after use.

**WORKING
CONDITION**

The products should be handled when in the temperature range of 20 – 25°C.

PACKAGING

System	XD 4558	Ren[®] HY 2404
Quantity and Weight	2 x 10 kg	6 x 1 kg
Quantity and Weight	6 x 0.5 kg	6 x 50 g

**HANDLING
PRECAUTIONS****Caution**

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.

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