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Advanced Materials

RenCast® 6429 A / RenCast® 5429 B

ABRASION- AND IMPACT-RESISTANT GEL COAT

KEY PROPERTIES

- **High abrasion resistant**
- **Good chemical resistance**
- **Very good interlayer adhesion with epoxy resins**
- **Withstand moisture well, thus also suitable for thin layers**

APPLICATIONS

- Coreboxes, foundry patterns
- Tools for the ceramic industry (plaster working moulds)
- Negatives, moulds and fixtures
- Assembly jigs
- Percusion tools for working sheetmetal

PRODUCT DATA

Property	Unit	RenCast® 6429 A	RenCast® 5429 B
Appearance Colour	**visual**	Liquid translucent	Thixotropic paste green
Viscosity at 25°C	**mPas**	1800 - 3200**	20000 - 40000**
Density at 23°C	**g/cm^3**	1.05 - 1.15	1.80 - 1.90

** *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 purposes only. Data values are not guaranteed or warranted unless if specifically mentioned.*

TYPICAL SYSTEM DATA

PROCESSING

Mix ratio	Parts by weight
RenCast® 6429 A	100
RenCast® 5429 B	80

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.

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PROPERTIES

Resin/Hardener mix:	Volume	Unit	RenCast® 6429 A RenCast® 5429 B
Appearance			Green
Pot life at 25ºC	1000 ml	min	15 - 20
Demoulding time at 23°C		hours	12 - 14

After cure: 14 hours at RT / 14 hours at 40°C

Density	ISO 1183	g/cm^3	1.5 - 1.6
Hardness	ISO 868	Shore D	60 - 65
Abrasion*	Taber	mg	1400

* Lost weight by 4000 cycles, 60 rpm, 1kg load, S 60 sandpaper strips

STORAGE

Provided that RenCast® 6429 A and RenCast® 5429 B 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 CONDITIONS

The product should be used in the temperature range 18-25°C

PACKAGING

System	RenCast® 6429 A	RenCast® 5429 B
Quantity and Weight	6 x 1 kg	6 x 0.8 kg

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.

Huntsman Advanced Materials
(Switzerland) GmbH
Klybeckstrasse 200
4057 Basel
Switzerland

Tel: +41 (0)61 299 11 11
Fax: +41 (0)61 299 11 12

www.huntsman.com/advanced_materials
Email: advanced_materials@huntsman.com



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