



POLYMÈRES
technologies

TECHNO COAT 8020

Epoxy surface coat

DESCRIPTION

TECHNO COAT 8020 IS A HIGH-PERFORMANCE, TWO-COMPONENT 100% SOLIDS EPOXY SURFACE COATING ENGINEERED FOR INDUSTRIAL APPLICATIONS. ITS MEDIUM VISCOSITY AND RAPID CURING TIME ALLOW FOR EFFICIENT APPLICATION BY BRUSH OR ROLLER, MAKING IT AN IDEAL SOLUTION FOR MANUFACTURING MOLDS, DIES, AND REINFORCED FIBERGLASS UNITS.

KEY FEATURES:

- **EXCEPTIONAL CHEMICAL RESISTANCE**
- **MINIMAL SHRINKAGE DURING CURING**
- **ACCELERATED CURING TIME FOR FASTER TURNAROUND**
- **EASY APPLICATION ON VARIOUS SURFACES**
- **AVAILABLE IN BLACK, WHITE, AND GREY**
- **SLIGHTLY THIXOTROPIC FOR CONTROLLED APPLICATION**



APPLICATION

As some settling is normal in part **A** on long standing, it is highly recommended to stir in original container before adding the part **B**.

Add **10** parts by weight of part "**B**" to **100** parts by weight of part "**A**" and stir mechanically for 5 minutes. Apply with the suggested tools.

The uncured components can easily be cleaned by using **solvent 901**.

Please consult **POLYMERES TECHNOLOGIES** for more details based on your application.

PHYSICAL PROPERTIES (at 22°C)

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		PART A	PART B	MIXED
Viscosity	Brookfield cps	66 000	25	14 000
Consistency		Liquid	Liquid	Liquid
Density	g/cm ³	1.39	0.98	1.34
Mixing ratio	1. By volume	100	14.2	100/14.2
	2. By weight	100	10	100/10
Pot-life	masse 200 cc	30 minutes at 22°C		
Gel time	50 mils (6"X6" métal)	2 hrs		
Peak exothermic temperature maximum	ASTM D 2471-71	200°C		
Full cure*		1 days at 22°C		

PHYSICAL PROPERTIES (solid state) 7 days after cure at 22°C

TEST	METHOD	RESULTS	
Hardness	ASTM D 785-65	Shore D	87
Compressive Strength	ASTM D 695-80	MPa [†]	65.5
Tensile Strength	ASTM D 638-82	MPa	55.8
Flexural Strength	ASTM D 790-81		125
Deflection Temperature (°C)	ASTM D 648-82	1. 455 kPa [‡] 2. 1820 kPa	53.5 52.0
Impact deflection	ASTM D 256-81	J/m [§]	36
Linear Shrinkage	ASTM D 2566-79	cm/cm	.002
Coefficient of Linear Thermal Expansion	ASTM D 696-79	mm/mm°C	4.6 X 10 ⁻⁵
Abrasion Resistance	Taber CS-17 - 1000 gr		0.077

* After material has solidified full cure can be accelerated at 51.7°C (125°F).

† 1 MPa = 145 lb

‡ 1 kPa = .145 lb

§53.4 KJ m = 1 lbF po2



PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when handling these products :
 - Ensure good ventilation
 - Wear gloves, safety glasses and waterproof clothes.
- Shelf life of product in original closed containers is **one (1) year**.
- **SHELF LIFE:** The shelf life on **POLYMÈRES** products begins from the date of invoice for that product shipment. **POLYMÈRE's** shelf life only pertains to containers that are unopened and in their original condition.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- It is recommended to follow Provincial and Federal safety regulations. In case of eye contact, rinse well with water, in case of skin contact, rinse with soap and water. Keep away from children.

GUARANTEE

Seller makes no warranty of any kind, express or implied, as to the merchantability, fitness for any particular purpose, or any other matter with respect to the product **TECHNO COAT 8020**. Since conditions of use are beyond seller's control, buyer assumes all risk of use of this product. Under no circumstances will seller be liable for consequential or incidental damages arising out of the use of this product. Seller's sole obligation shall be to replace the product if found to be defective. It is the user's responsibility to determine the suitability for use of this product under the conditions present at the time of application. M.S.D.S. available upon request.