

PRODUCT INFORMATION

REMACOAT A-80 HP

General properties:

REMACOAT A-80 HP is a cold curing 2-component coating system based on polyurea. The two highly reactive liquid components with the name **REMACOAT A-80 HP ISO** and **REMACOAT A-80 HP POLY** are mixed together through high pressure spraying – and become a highly elastic material within a few seconds, at ambient temperatures.

On account of the high reactivity of the two liquid components, a post curing process with hot air or steam in an autoclave is not necessary. However, it is possible to accelerate the cross linking process by post curing with hot air.

Due to its high elasticity, the coating system **REMACOAT A-80 HP** is ideal for durable crack bridging and thus prevents the ingress of moisture or aggressive mediums into the substrate.

Furthermore, the coating system with the product name **REMACOAT A-80 HP** is especially resistant to friction wear.

Chemical resistance (wet):

The outstanding feature of the coating system is its chemical resistance against saline solutions, as well as diluted non oxidizing acids and alkaline solutions at temperatures of up to 40 °C.

Thermal resistance (dry):

Continuous stress : -40 °C... +130 °C

Short-period stress : 150 °C

Fields of application:

- The coating system **REMACOAT A-80 HP** is used in nearly all industries as multifunctional surface protection, because of its special qualities.
- Truck body lining
- Excavator Shovels
- Transfer points
- Pulleys



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Description of product REMACOAT A-80 HP ISO :

Polymeric base :	Diphenylmethanediisocyanate (isomeres and homologues)
Colour :	Colour of honey, transparent
Viscosity (25°C) :	3.200 – 3.800 mPa*s
Density (25°C) :	1,09 – 1,13g/cm ³

Description of product REMACOAT A-80 HP POLY :

Polymeric base :	Mixture of Polyoxyalkylamines
Colour :	Beige, cloudy (any colouring)
Viscosity (25°C) :	1.200 – 1.800 mPa*s
Density (25°C) :	1,02 – 1,06 g/cm ³

Shelf life:

12 months if stored in closed original drums under storage conditions according to DIN 7716.

Hints for application:

Pre-heat temperature for both components	40 °C
Process temperature for both components	75 – 80 °C
Application	Spray with 2K-high pressure machines, airless
Mixing ratio (70 – 80 °C)	Volumetric Ratio : ISO : POLY = 100 : 100 Gravimetric Ratio : ISO : POLY =109 : 100
Gelification –Time	According to temperature of substrate approximately 13 – 15 sec.
Tack-free- Time	According to ambient temperature approximately 120 sec.
<u>Important</u> : The Poly-component has to be stirred well before use.	



Limit values for application:

Temperature range for application:	-10°C - +50°C
Maximum relative humidity for application to steel/concrete:	98 %
Pay attention to the dew point limit:	min. 3°C > dew point

Physical- mechanical characteristics:

Technological values	DIN- / ASTM - Standards	REMACOAT A-80 HP
Density [g/cm ³]	EN ISO 1183 / -	1,05 ± 0,02
Tensile strength [N/mm ²]	53504 / D-638	≥ 15
Tensile Elongation [%]	53504 / D-638	300 - 350
Module 100 [N/mm ²]	53504 / D-638	≥ 12
Hardness [Shore A]	53505 / D-2240	80 ± 5
Abrasion resistance [mm ³]	53516 / -	70 - 90
Rebound elasticity [%]	53512 / -	≥ 38
Tear growth resistance [N/mm]	ISO 34-1-2004 Methode A / -	≥ 14

Final qualities are reached after 5 - 7 days.

The technological values are determined after 28-days conditioning at ambient parameter (T = 23 ± 2 °C; Air humidity = 40 – 60 %).

The information given above is based on approved test results and represents statistical product data, which does not however necessarily guarantee the specific properties of the product. We reserve the right to changes to technical specifications without prior notice, provided they ensure technical improvement without major modifications of the product itself.

Chemical-physical characteristics :

Properties	DIN - / ASTM- Standards	REMACOAT A-80 HP
Surface resistance [Ω]	IEC 60167 / -	≥ 1,0 * 10 ¹¹
Water vapour permeability [g/m ² *d]	53122 / E-96	12 – 14 *
Water vapour permeation [ng/cm*h*Torr]	53122 / E-96	0,05 – 0,09 *
Peel strength (steel) [N/mm]	53531 / -	≥ 8
Peel strength (concrete) [N/mm]		≥ 7

*the values are determined for material thickness of 4 mm at a temperature of 38°C



Standard programme REMACOAT A-80 HP ISO and POLY

Form of delivery:

Name of product	Drum size	Reference-No.
REMACOAT A-80 HP ISO	20 kg	590 3370
	222 kg	590 3360
REMACOAT A-80 HP POLY	20 kg	590 3380
	208 kg	590 3350

Please pass this data sheet to the person in charge of coating application. Above data and recommendations are based on extensive tests and are to be considered only as guidelines without any obligations. As we are continuously developing and improving our products we recommend to consider the date of this data sheet and, if necessary, to ask if there were changes in the meantime. In case of further questions please contact one of our technical advisors for detailed information at:

REMA TIP TOP GmbH
Business Unit Industrie
Gruber Straße 63
85586 Poing

Telephone: +49-(0) 81 21 / 7 07 – 2 55 or -106
Fax: +49-(0) 81 21 / 7 07 – 2 22
e-mail: bernd.dietz@tiptop.de

