TEKNOBLADE REPAIR 9000-20

Elastomeric coating

TEKNOBLADE REPAIR 9000-20 is a two-pack, solvent-free elastomeric coating designed for dispenser gun application. Intended for use as a repair product for refurbishment of Leading Edge Protection on Wind Turbine Blades.

Substrate types: Tested and approved on Fibre reinforced polymer and previously lacquered surface.

TEKNOBLADE REPAIR 9000-20 withstands impacts and hard abrasion. It will cure down to a temperature of -8 °C. The coating will yellow and chalk over time when exposed to UV light. However, the coating will still maintain protection against rain erosion despite the discoloration. TEKNOBLADE REPAIR 9000-20 is usually applied in 2-3 mm thickness.

TECHNICAL DATA

Approx. 100% by volume			
Approx. 1080 g/l			
Approx. 0 g/l (DIRECTIVE 2010/75/EU)			
The VOC value provided is the average value for factory produced products, and			
consequently it will be subj	will be subject to variations between individual products		
covered by this Technical Data Sheet.			
Dry film (mm)	Wet film (mm)	Theoretical spreading rate (m²/l)	
2-4	2-4	0.5 depending on thickness	
The values depend on the application technique, surface conditions, overspray,			
etc. To obtain sufficient rain erosion protection – a film thickness below 1.5 mm			
is not recommended.			
White.			
Gloss			
Comp. B: TEKNOBLADE REPAIR HARDENER 7000			
1:1 parts by volume			
Approx. 80 s depending on film thickness and temperature.			
The storage stability is shown on the label. Must be stored tightly closed and			
kept cool and dry.			
Storago tomporaturo is 15	°C _ 135°C		
	Approx. 1080 g/l Approx. 0 g/l (DIRECTIVE 24) The VOC value provided is the consequently it will be subj covered by this Technical D Dry film (mm) 2-4 The values depend on the ate etc. To obtain sufficient rate is not recommended. White. Gloss Comp. B: TEKNOBLADE RE 1:1 parts by volume Approx. 80 s depending on The storage stability is sho kept cool and dry.	Approx. 1080 g/l Approx. 0 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factor consequently it will be subject to variations between it covered by this Technical Data Sheet. Dry film (mm) Wet film (mm) 2-4 2-4 The values depend on the application technique, surface etc. To obtain sufficient rain erosion protection – a film is not recommended. White. Gloss Comp. B: TEKNOBLADE REPAIR HARDENER 7000 1:1 parts by volume Approx. 80 s depending on film thickness and temperation technique surfaces and temperation surfaces and temperation surfaces and temperation technique surfaces and temperation tech	





1/3





DIRECTION FOR USE

Surface preparation	 Cleanliness: Any contamination that might be detrimental to surface preparation and coating must be removed prior to application. The cleaning method used shall ensure that water-soluble salts, dust, grease, and oils are fully removed. Surface roughness: dense and uniform surface roughness free of dust. Recommended sandpaper grit size: 60-80. Coarse, dense, and clean roughness is mandatory for optimum and sound adhesion. Additional instructive information for surface preparation and application can be found in the Teknos Application Guide.
Application	Vertical surfaces: On vertical surfaces the required thickness of coating is achieved by a single pass with the dispenser gun.
	The components must be kept at a temperature between +15°C and +50°C before use to ensure an efficient fluid flow through the static mixer tube and application tip.
	NOTE: The viscosity of the product depends on the temperature.
	The film thickness may be controlled on a reference plate (steel) with a dry film gauge. Recommended single-pass film thickness 2-4 mm. The curing process is exotherm and creates some heat depending on the applied film thickness. The cure will be slower at lower film thickness.
	The mixing ratio and degree of curing can be controlled by measuring the hardness of the coating (Shore A method). At a temperature of +23°C a hardness of minimum 80 Shore A should be reached after 1 hour.
Application conditions	The surface which is to be coated must be dry and the substrate free of any moisture content. During the application and drying period, the temperature of the ambient air and the surface shall be above -8°C and below +50°C. The relative air humidity below 85%. The temperature of the surface to be treated must be at least +3°C above the dew point of the ambient air. The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment.



Drying time

- dust free

- fully cured

+23°C / 50% RH and approx. 2 mm thickness Approx. 6 min. Approx. 1 day Shore A: 15 min. ~ 70 1 hour ~ 85 24 hours ~ 95

Overcoatable

Surface temperature	TEKNOBLADE 9000-20		
	Minimum	Maximum	
+8°C	12 min.	24 h	
+23°C	6 min.	24 h	
+30°C	3 min.	24 h	

HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

Teknos Group Oy Takkatie 3, P.O.Box 107 FI-00371 Helsinki, Finland Tel. +358 9 506 091

The above information is normative and based on laboratory tests and practical experiences. The information is noncommittal, and we cannot accept liability for the results obtained under working conditions beyond our control, and consequently the buyer or the user is not released from the obligation to test the suitability of our products for specific means and application methods under the actual application conditions. Our liability covers only damage caused directly by defects in the products supplied by Teknos. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos' Technical Data Sheets and Safety Data Sheets are available from our homepage www.teknos.com. All trademarks displayed on this document are the exclusive property of Teknos Group or its affiliated companies.