ALLTER

ALTERNATE CORROSION PREVENTION SYSTEMS

Allter-Repair™ Patch

PRODUCT DATA SHEET

Selection and Specification Data

Generic Type

Non-crystalline pure homopolymer Polyisobutene

Product Description

Allter-Repair™ Patch is an excellent UV-resistant viscoelastic fibre-reinforced high-performance corrosion barrier repair material to protect damaged new-and old carbon steel, stainless steel, ductile iron and non-ferro metal substrates. This Touch-up and sealing material is specific designed for atmospheric services from -45 up to +70°C (-49 up to 158°F) and complies to ISO 12944: 2018. Allter-Repair™ Patch is equipped with an OEM applied elastomeric finish. Examples of applications are above ground pipelines, storage tanks, bridges, wind-offshore structures and other above ground structures etc. found in various industries such as in petrochemical facilities, chemical plants, Offshore, power plants, etc.

Features

- Non-toxic material, safe for humans, animals and the environment
- Excellent barrier properties
- Fibre-reinforced material with excellent UV resistant elastomeric finish
- Single layer system/supplied as Patch
- Complies to ISO 12944: 2018
- Excellent creep resistance
- Material remains flexible, even at lower temperatures (no lifting foils)
- Excellent adhesion to carbon steel and stainless steel
- Excellent adhesion to EP, PU, PE, PP, PVC and non-ferro metals
- Surface tolerant material (minimum SSPC-SP2/St2)
- No primer, intermediate and topcoat required
- Atmospheric service temperature from -45 up to max +120°C (-49 up to 248°F)
- Can be applied without tools, just by hand like a sticker
- Self-healing capabilities
- No need for curing

Color

Light grey and yellow (RAL 7035 and RAL 1023) others on request

Finish

Semi-gloss

Primer

Self-priming

Allter Repair™ Patch

Dry Film Thickness	1000micron (40mils) nominal
Volume Solids	100%
Theoretical Coverage Rate	No material loss. Coverage rate depending on Patch dimension. See packaging sizes
VOC	0 g/l (0.00 lbs/gal)
Temperature Resistance	from -45 up to +120°C (-49 up to 248°F)
Topcoats	NA

Substrate and Surface Preparation

General	Remove all dirt, grease, mill scale, loose rust and any other contaminants that can reduce adhesion according SSPC-SP1 solvent cleaning, followed by the recommended substrate preparation as listed below.
Carbon Steel	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.
Stainless Steel	Minimum St2/St3 (SSPC-SP2/SP3). A specific surface profile (Rz) is not required.

Mixing and Thinning

Mixing	No mixing. Ready to use material.
Thinning	No thinning. Ready to use material.

Application Equipment

General	This material can be simply applied by hand. To verify if the substrate is prepared sufficient, a small piece (approx. 50x100mm.) of the material can be applied on the prepared substrate. Press it firmly, fold the end (for ease of removal) and leave it for approx. 5 minutes. Remove the material by slowly pulling it away by hand under a 135° angle. Cohesive fracture should occur and >85% material must remain left on the substrate. If less, the substrate is not prepared sufficient.
Application	Remove a small part of the release liner and stick the material onto the prepared substrate. Further removing the release liner during application, applying the material without tension and press the material firmly onto the substrate to avoid air entrapment. A pressure roller can be used
Airless spray	NR
Brush and roller	NR

Allter Repair™ Patch

Application Conditions

	Condition	Material	Surface	Ambient	Rel. Humidity
	Minimum	5°C (41°F)	5°C (41°F)	5°C (41°F)	0%
	Maximum	40°C (104°F)	70°C (158°F)	50°C (122F)	95%
	This material requires the substrate temperature to be 3°C (5°) above dew point				

Curing Schedule				
	Temperature	**Touch dry**	**Dry to recoat**	**Dry to handle**
	5°C (41°F)	NA	NA	NA
	40°C (104°F)	NA	NA	NA
	50°C (122°F)	NA	NA	NA
	70°C (158°F)	NA	NA	NA
	Note: This material has **no** curing time			

Cleanup and Safety Information

Cleanup NR

Safety This material does not contain any hazardous ingredients. See SDS for specific information.

Packaging, Handling and Storage

Shelf life Unlimited at 23°C (73°F)

Storage temperature and humidity 5 - 50°C (41-122°F). 95%.

Storage Material should be stored indoors, clean and dry, kept away from direct sunlight.

Shipping weight			
	Dimension	**Weight per Patch**	**Patches per Sqm.**
	50mm. x 50mm.	4.25 g.	400
	100mm. x 100mm.	17.5 g.	100
	200mm. x 100mm.	34.0 g.	55
	300mm. x 100mm.	51.0 g.	33

Flash point (ISO 1523) NR

DATE: January 2020