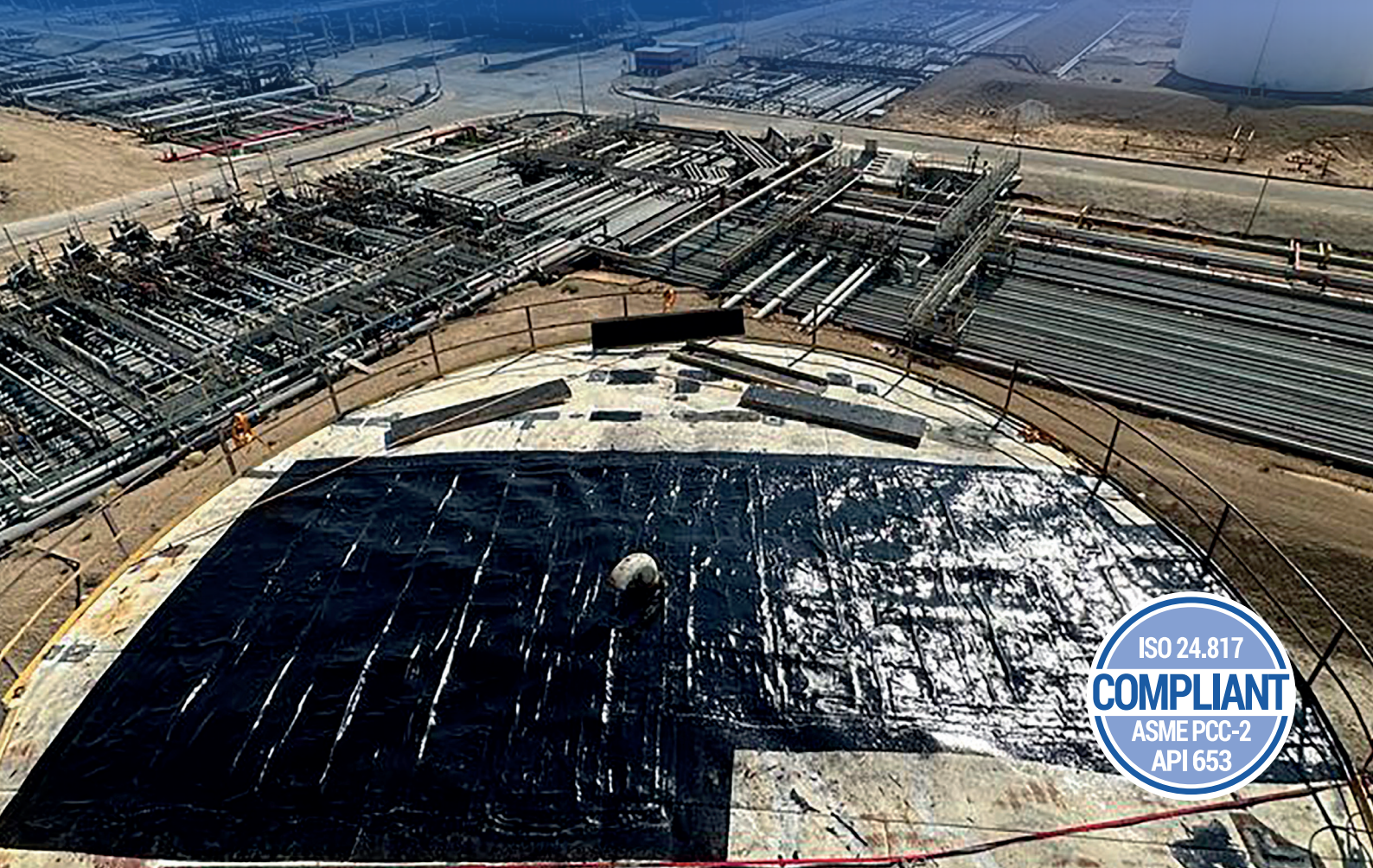


3X ENGINEERING

REINFORCEKiT® PATCH



LONG-TERM COMPOSITE REPAIR SOLUTION FOR TANK AND PRESSURE VESSEL REINFORCEMENT



ONSHORE / OFFSHORE



Any designs



Any diameters



Any defect sizes



Storage and pressure



-50°C to +150°C



-58°F to +302°F



Oil



Gas



Water

REINFORCEKiT® PATCH is a wet lay-up patching repair system designed to reinforce tanks and pressure vessels, restore original asset integrity and prevent further deterioration.

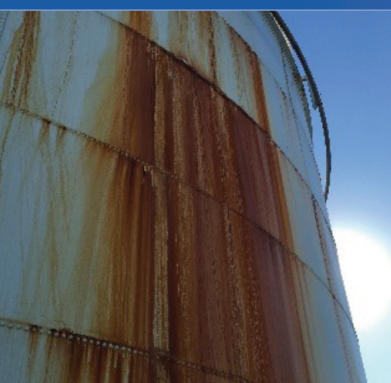
This composite technology, made of several Kevlar® patches and bi-component epoxy resin, is a great alternative to welded metal plate and equipment replacement.

3X ENGINEERING (3X) developed its own software to design the repair and define the material requirements according to ISO 24.817, ASME PCC-2 and API 653 standards.

REINFORCEKiT® PATCH RANGE



ONSHORE / OFFSHORE TOPSIDE



EXTERNAL CORROSION



INTERNAL CORROSION



THROUGH WALL DEFECT,
LEAK, HOLE



MECHANICAL DAMAGE,
DENT, CRACK ...

REINFORCEKiT® PATCH MAIN FEATURES & BENEFITS

- › Tailor-made for each repair
- › Online repair (no loss of production)
- › Long-term performance (up to 20-year lifetime)
- › Designed according to the standards (ISO 24.817, ASME PCC-2 and API 653 compliant)
- › Versatile product with a large range of applications (storage and GRP tanks, pressure vessels, separators, columns ...)
- › Suitable for any tank (wall, roof and bottom plate) and pressure vessel designs and diameters
- › No limitation in pressure and defect size
- › User-friendly (no hot work, non conductive repair, light product)
- › Installation by trained and certified applicators only
- › Traceability using smart tag

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REINFORCEKiT® PATCH IMPLEMENTATION



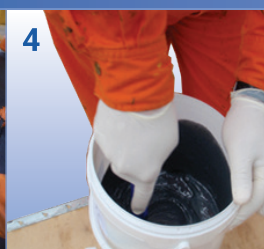
1
Designed as per
ISO 24.817
and ASME PCC-2



2
Surface preparation
Sa2½ / St3 & roughness
Rz > 60 µm (2.4 mil)



3
3X filler application



4
3X bi-component
epoxy resin
preparation



5
Kevlar® patching with
3X resin application



6
Final protection and
traceability tag



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